

IP Camera

User Manual

Version: 1.1

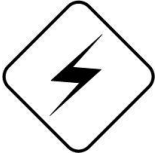

Date: 10 30, 2008

WARNINGS, CAUTION & COPYRIGHT

WARNINGS

Reduce the risk of fire or electric shock. And do not expose this product to rain.

Do not insert any metallic object through ventilation grills.

CAUTION	
	
The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to presence of insinuated “dangerous voltage” within the products enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons	The exclamation point within an equilateral rhombus is intended to alert the user to the presence of important operating and maintenance (servicing) instruction in the literature accompanying product.
RISK OF ELECTRIC SHOCK DO NOT OPEN	
TO REDUCE TE RISK OF ELECTRIC SHOCK DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE REFER SERVICING TO QUALIFIED SERVICE	

USER OF THE SYSTEM ARE RESPONSIBLE FOR CHECKING AND COMPLYING WITH ALL FEDERAL, STATE, AND LOCAL LAWS AND STATUTES COIPCERNING THE MONITORING AND RECORDING OF VIDEO AND AUDIO SIGNAL. ULTRAK SHALL NOT BE HELD RESPONSIBLE FOR THE USE OF THIS SYSTEM IN VIOLATION OF CURREENT LAWS AND STATUTES.

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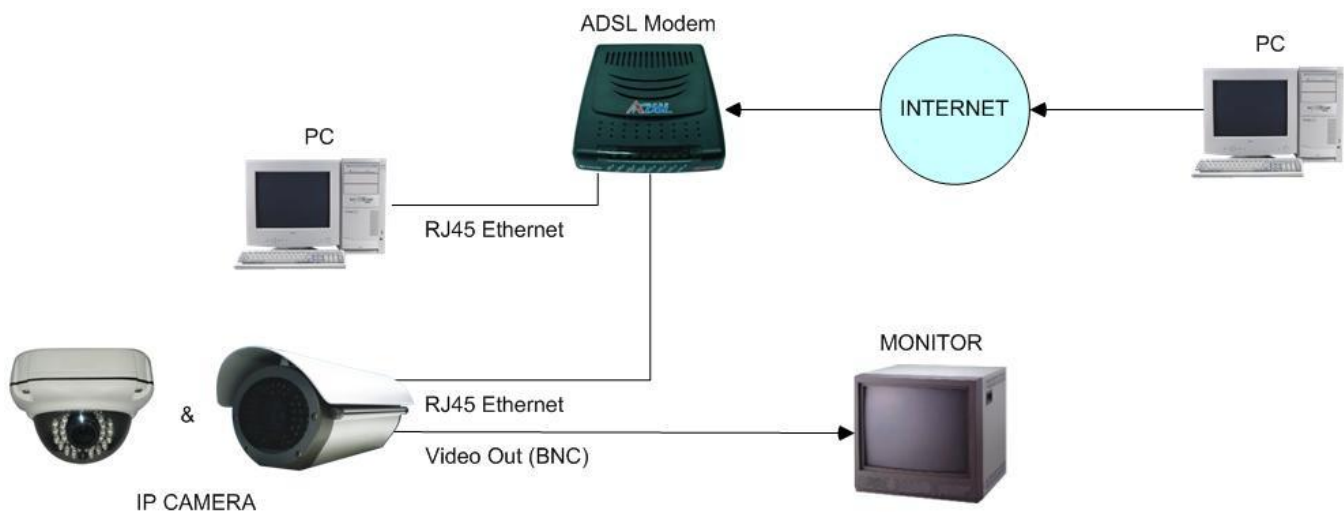
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1. Introduction

1.1 Illustration

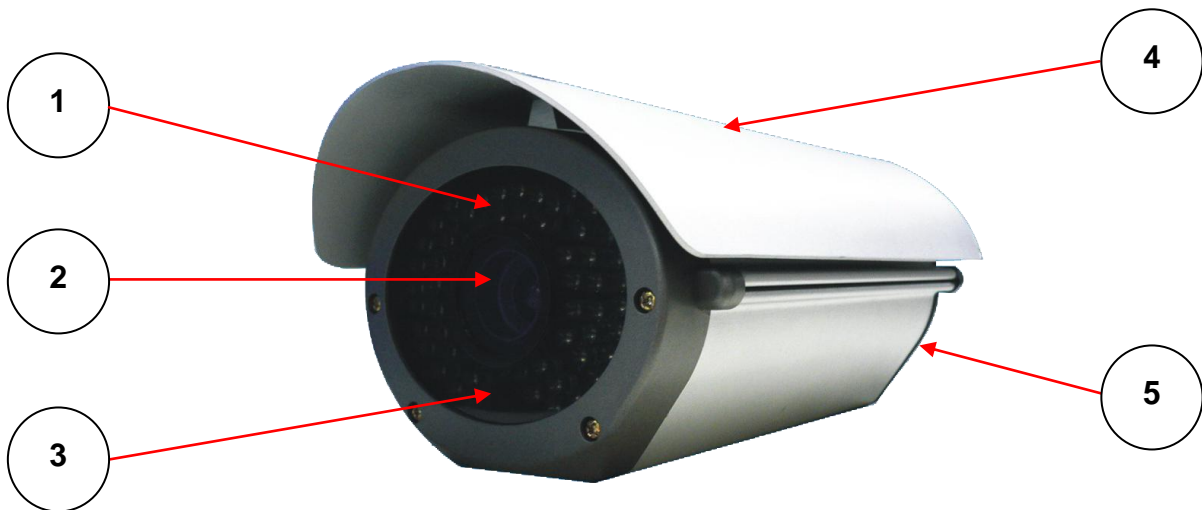
Thank you for choosing our company products. We also produce the analog camera, but now we built in the IP module on our camera. Plug IP CAMERA directly to a RJ45 Ethernet port and you will be able to watch camera sites real-time anywhere in the world. Furthermore you will be able to control the camera from any PC/Notebook over the Internet through the I.E browser or Software. Our IP CAMERA also provide the USB interface to quick setting for customer, you will set up all function easily.



2. Hardware Overview

2.1 IP CAMERA Surface

2.1.1 Outdoor IR Camera:



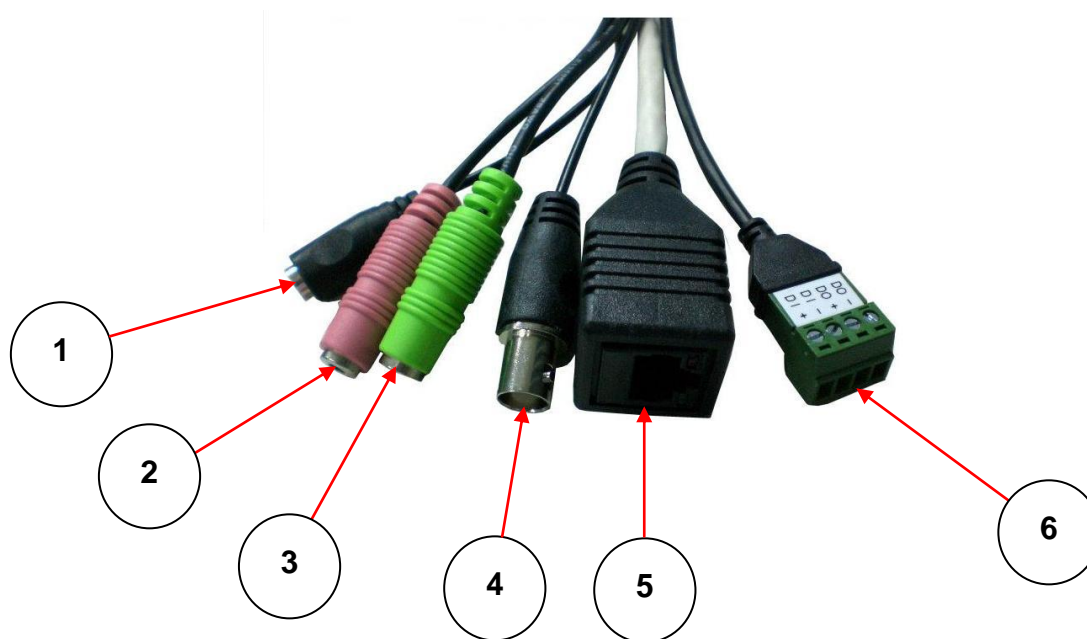
No.	Name	Description	Remark
1	IR	Provide the Infrared ray distance to work in the night	50M
2	Lens	Provide the 3~9mm of Japan Computar Lens for our customer.	9~22mm Option
3	CDS	According to the light is strong or low, enable/disable the IR LED function.	
4	Cover	Easy open design to adjust Lens conveniently	
5	Cable	Refer the 2.2 IP CAMERA Combo Cable Interface capture	

2.1.2 Outdoor Dome Camera:



No.	Name	Description	Remark
1	IR	Provide the Infrared ray distance to work in the night	10/20M
2	Lens	Provide the 3~9mm of Japan Computar Lens for our customer.	9~22mm Option
3	CDS	According to the light is strong or low, enable/disable the IR LED function.	
4	Cover	Easy open design to adjust Lens conveniently	Burglar-proof Screw
5	Cable	Refer the 2.2 IP CAMERA Combo Cable Interface capture	

2.2 IP CAMERA Combo Cable Interface



No.	Name	Description	Remark
1	DC Power Jack	Connect the power adapter directly	Format is 12V 1A
2	Audio In	Supply the input of microphone through RCA interface	Support Line IN & mic IN format With ActiveX
3	Audio Out	Supply the output of sparker through RCA interface	With IP CAM Software
4	Video Out	The Image will output to monitor through BNC interface	
5	RJ45 Socket	Connect the RJ45 cable	
6	DI / DO	Connect the trigger in & out alarm device through DI/DO interface	Refer the chapter of Appendix A: How to set up the Alarm Input & Output

NOTE :

Follow the operational instructions for correct use. Please don't place the product on unstable desk or bracket. And avoid any liquid permeate inside of the machine in case damage the product.

2.3 IP CAMERA Setup

2.3.1 Outdoor IR Camera:

You can buy the bracket then set up to camera. Our camera follows the standard bracket screw. You can select the convenient bracket for your environment.



The IP CAMERA base can install on ceiling, wall ...Using the screws to mounting the bracket on the right position.

Find screw mounting base to assemble the camera with the bracket then complete installation.



Connect the power supply of DC12V / 1A Stable voltage adaptor.



2.4 Package Contents

	
1 x IP CAMERA	
	
1 x USB Cable	1 x Power Adapter
	
1 x Manual & Software CD	1 x Quick Installation Guide

Manual & Software CD:

- NVR Management Software
- User Manual
- Quick Installation Guide

NOTE :

PC running Microsoft Windows 2000 or above is only capable of running NVR software. PLEASE go through NVR users' manual before installation to check further PC requirements in order to ensure smooth software operation

3. IP CAMERA Installation

IP Cam is the easily setting IP CAMERA. Our IP CAMERA provide two kinds of setting methods: “**Basic Setting**” and “**Advanced Setting**”.

Basic Setting:

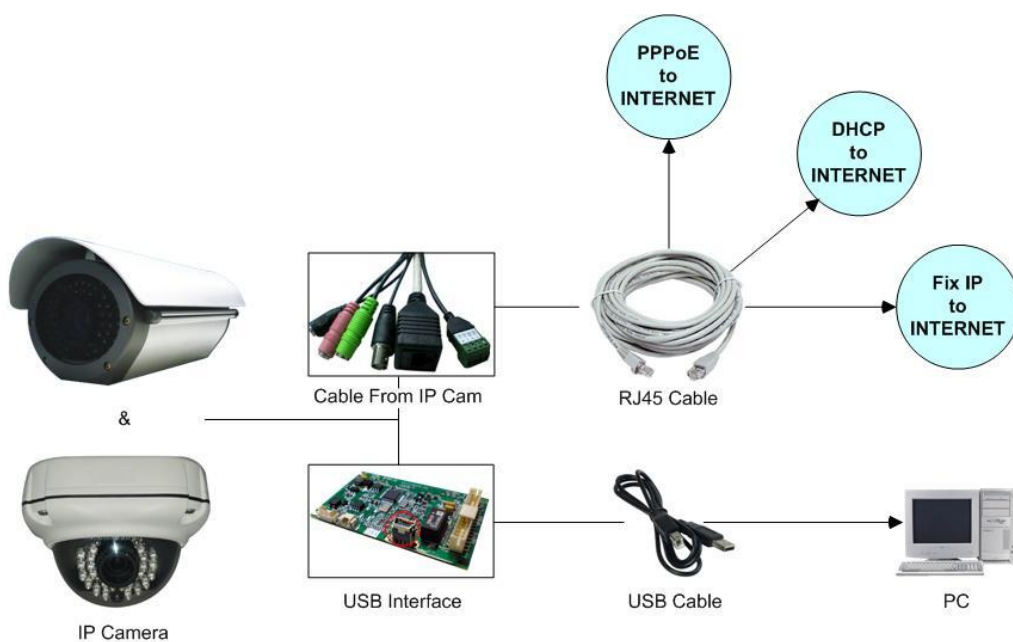
You can quickly configure or have to be set to factory default settings through the mini-USB interface. Insert mini USB cable onto USB config port and connect other end to PC. When video server is powered on, port will not be operational. Because of IP CAMERA will get the power from mini-USB interface.

Advanced Setting:

If you do not have the USB cable, please skip this section and jump to “**Advanced Setting**”. You can search the IP CAMERA through IP scan software.

NOTE :

You can change your computer IP then using the cross-over RJ45 cable to set up the IP CAMERA. You need to change your computer IP first. If you don't know how to set up your computer IP address, please make reference to the chapter of **Appendix. B How to set up your PC IP Address information** for further detailed description.



3.1 First Time Use Instructions

In first time, you need to check some requirement from your environment. If the requirement is not really, the IP CAMERA may not work.

Network environment: Standard CAT5 Ethernet cable.

Connect a standard CAT5 Ethernet cable to RJ45 socket on IP FIXED DOME CAMERA and connect other end to your network hub/switch. Make sure the PC you want to access IP CAMERA is on the same network domain.



Power environment: AC 110~220V Socket.

Power on video server by using power adapter provided in the product package. Connect power adapter to 110-220v AC socket.

Webpage Browser Supplier: Microsoft Internet Explorer Browser Version 6 or higher.

Because of the IP CAMERA need to install the OCX object(ActiveX object), Mozilla Firefox and similar others are not guaranteed to work with IP CAMERA.



Factory Setting: The Default IP Address and User Info.

Because of our IP CAMERA not provide the reset default button; you can set up the IP through IPScan software or mini-USB interface. Nevertheless, the IP CAMERA also has the default IP mode and address.

IP Mode:	Static IP
IP Address:	192.168.1.2
Submask:	255.255.255.0
Gateway:	192.168.1.1

IP CAMERA owns the Default ID & Password. You also can add other user account by yourself. Please make reference to the chapter of **5.2.13 Account** for further detailed description.

ID:	root
Password:	pass

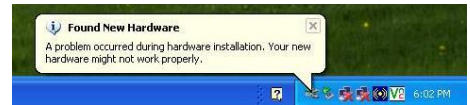
3.2 Basic Setting (mini-USB)

Disconnect the power cable and RJ45 cable connected to the IP CAMERA.



Connect the IP CAMERA to PC of using the mini-USB cable.

After 5 ~ 10 seconds, you can notice “**Disk drive**” being detected



The systems will pop-up the new window on desktop.

Please click the “**Config Wizard**” selection then press OK.



Input the password to enter the quick setting page.
(ID: root (Default Setting); Password: pass)

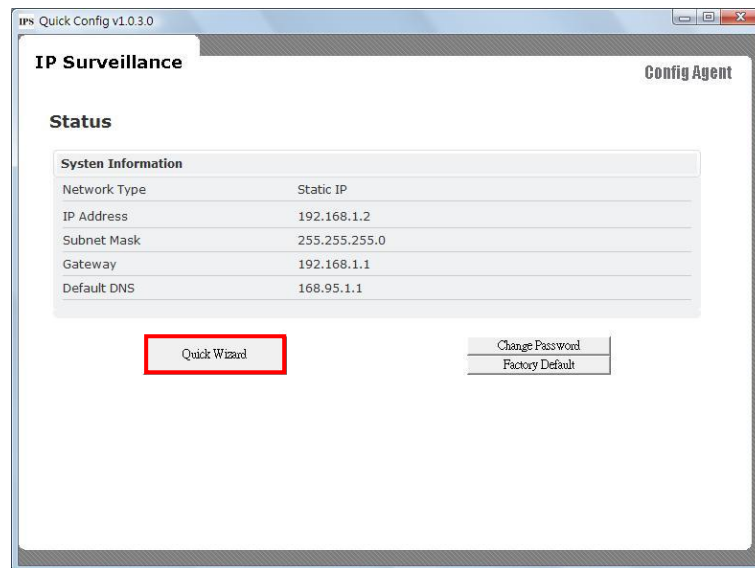


NOTE :

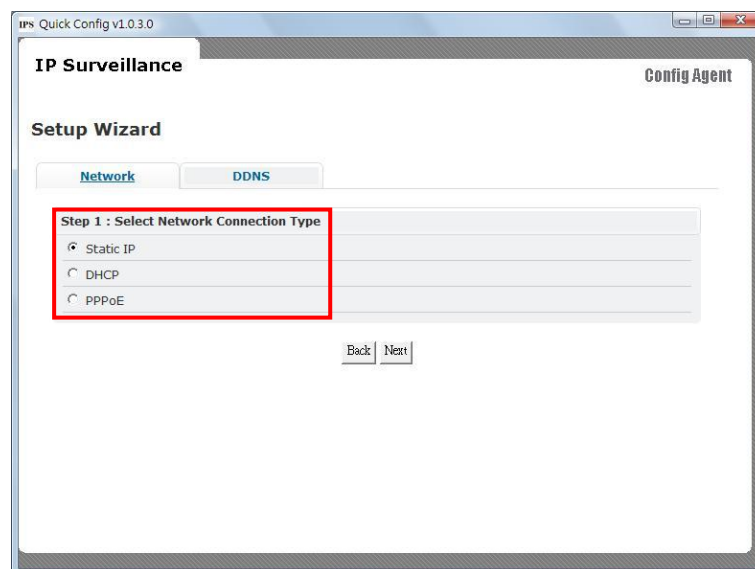
You will be asked for password. Earlier, if you have never changed the password for user **root**, please type **pass** as the password. Then click **login** button. If you input wrong password, you will get this dialog box.



Navigate through “**Quick Wizard**”, click it and you will enter the next windows. You can also use the “**Change Password**” and “**Factor Default**” functions through mini-USB.



Step 1: Select your connection mode by yourself then input the correction information. You can select the Static IP, DHCP and PPPoE. For example: Static IP Connection Type. Clicking next will show that settings are saved. You can click finish if you are done or go back or change other settings. Similarly you can change other settings at ease.



NOTE :

If you don't know your connection type or IP information, please check the default with local ISP.

Step 2: Maybe the IP CAMERA connects to the HUB, Switch or Router. According to your requirement, input your static IP address information. You need to input the IP address, Subnet mask, gateway and Default DNS.

The screenshot shows the 'IP Surveillance' Setup Wizard window. The title bar reads 'IPS Quick Config v1.0.3.0'. The window has a tabbed interface with 'IP Surveillance' selected. Below the tabs, there are two buttons: 'Network' (highlighted in blue) and 'DDNS'. The main area is titled 'Setup Wizard'. A red box highlights the 'Step 2 : Setup up your network information' section, which contains the following fields:

Step 2 : Setup up your network information	
IP Address	192.168.1.2
Subnet Mask	255.255.255.0
Gateway	192.168.1.1
Default DNS	168.95.1.1

Below the fields are 'Back' and 'Next' buttons.

Step 3: Set up your IP CAMERA port information. The default setting is 80(Web Port) and 1852(Stream Port).

The screenshot shows the 'IP Surveillance' Setup Wizard window. The title bar reads 'IPS Quick Config v1.0.3.0'. The window has a tabbed interface with 'IP Surveillance' selected. Below the tabs, there are two buttons: 'Network' and 'DDNS' (highlighted in blue). The main area is titled 'Setup Wizard'. A red box highlights the 'Step 3 : Port Information' section, which contains the following fields:

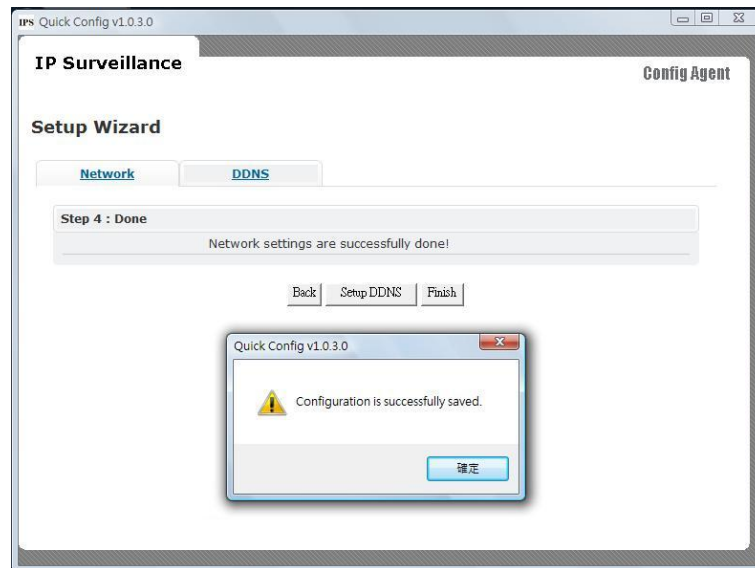
Step 3 : Port Information	
Web Port	80
Stream Port	1852

Below the fields are 'Back' and 'Next' buttons.

NOTE :

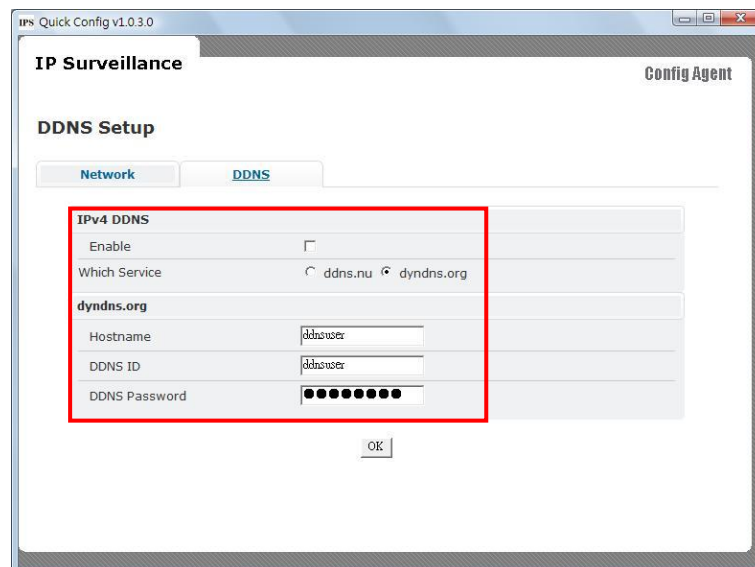
The detail IP setting information, please make reference to the chapter of **5.2.1 Network** for further detailed description.

Step 4: The setting is done in this page. Please click the “OK” button then press the “Finish” to finish the setting



NOTE :

Click the “**Setup DDNS**” to set up DDNS function, input the detail DDNS setting info. to field of DDNS Setup. If you have not the account of DynDNS.org, please make reference to the chapter of **Appendix. C DDNS Application** for further detailed description.

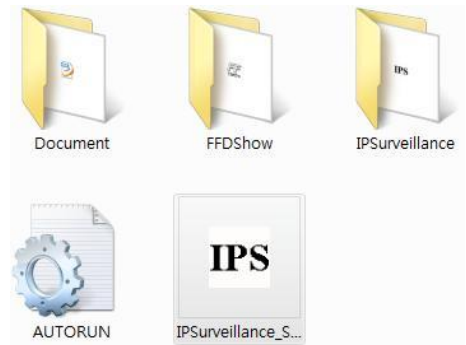


You also click the “**DDNS**” button to finish detailed configuration on the “**Quick Config**” setting. Click “OK” button to return to Network page to setup network further after finish setting. Please choose and click **next** for detailed configuration page. For instance, shown below is a screen which has **STATIC** network configuration page. Click next to proceed.

3.3 Advance Setting (IP Scan)

If you are not using mini-USB cable, very likely your environment can use the advance setting to camera. If you have many IP CAMERAs on your office/factory, you would need to set up your camera through “**Advance Setting**”.

Install the IP CAMERA Software first. Insert CD and install IP Surveillance Software to your PC. For CD installation, please click on Install “IPS” and follow the wizard.



The system will pop-up the window of “IP Surveillance Software” then clicks the “Install IPSurveillance” icon to install the software.



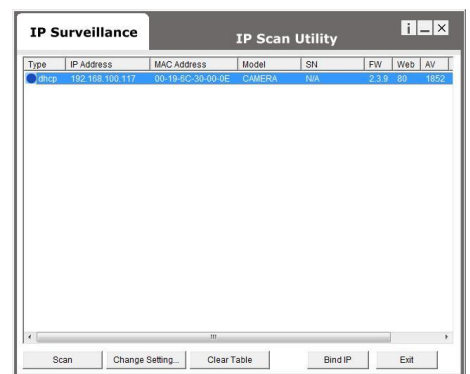
After the installation, you can find the “**IPSurveillance**” file on the “Start Menu”



Click the “**IPScan**” to open the software then click the “Scan” button to search the IP CAMERAs.

If the software finds the IP CAMERAs, you will see the camera information(IP Address and MAC) on the list.

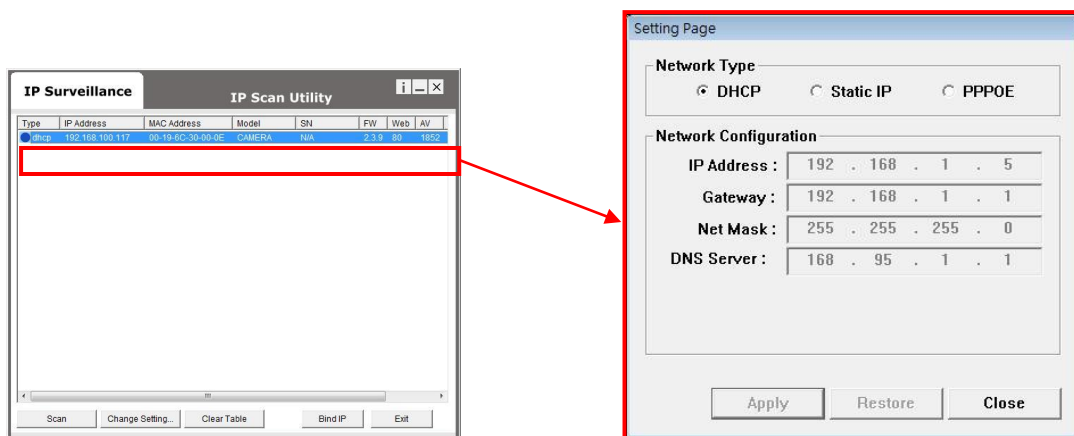
To refresh, click “**Clear Table**” then click “**Scan**” again.



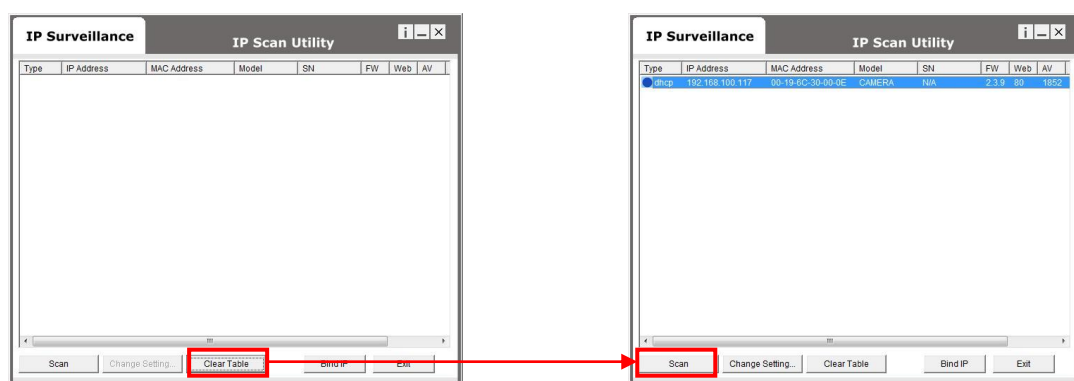
Select the setting IP CAMERA then click **“Change Setting”** button to modify your IP CAMERA setting. Find out the type of your WAN port of your Internet service: fixed IP, DHCP or PPPoE. (Please ask your internet service provider (**ISP**) for the connection details and information) Change any settings you want to make and make sure you have correct values in all fields. Click **“Apply”**.

NOTE :

You can also double click a specific IP address and change some basic network parameters. A dialog box will appear as follows.



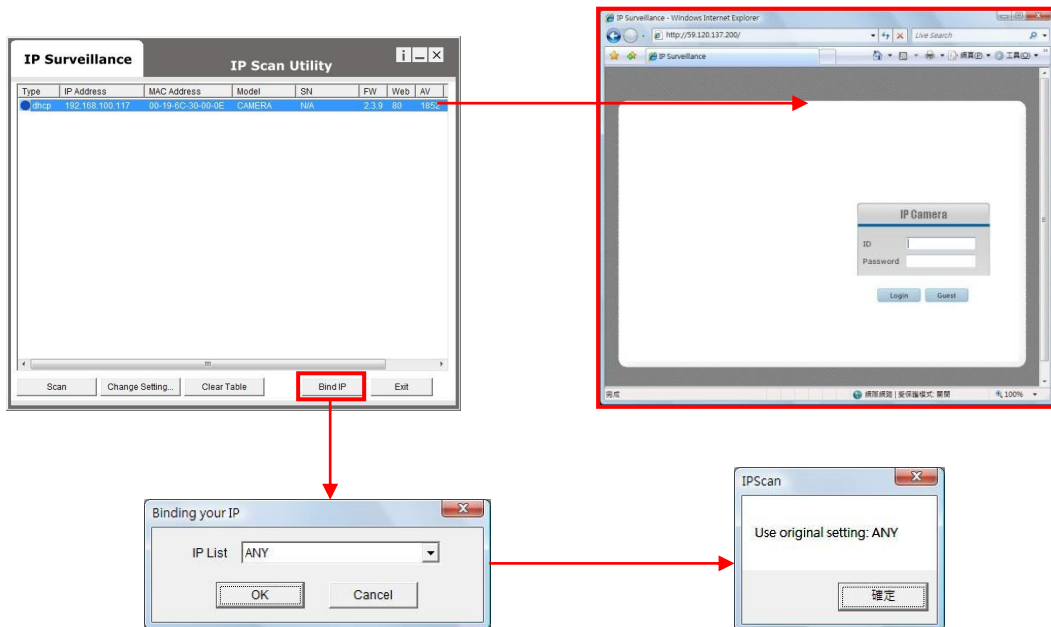
Within 10 seconds, the dialog box should disappear to indicate new settings are accepted and being applied. Wait for around 30 seconds, before trying to refresh IP list. Click **“Clear Table”** and click **“scan”** again.



You should be able to find MAC address of IP CAMERA under new IP address. IP CAMERA is online on your network. Use ping command from Windows command prompt to double check if IP is reachable. Finish all setting, quit **IPScan** anytime, click **“Exit”**

NOTE :

If you want to quickly open the IP you see on IPScan on your browser, select an IP and do a “double right click” on your mouse/touchpad. You can see the browser window open that IP.



You also change the bind IP by yourself. You can select the “**ANY**” or “**your computer IP**”

4. Access to IP CAMERA

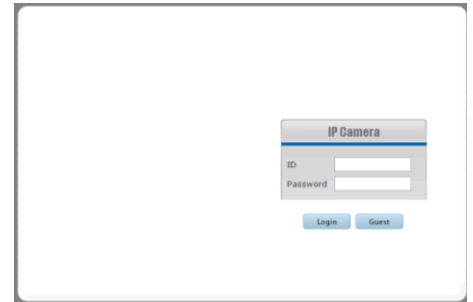
Open the Browser through Internet Explorer or IPScan. Input the IP address of IP CAMERA then press ENTER button to open the setting web page of IP CAMERA.

For example: Default IP: 192.168.1.2

Input the ID and Password to login the setting web page

Default ID: root

Default Password: pass



Click “**Login**” button to go to web view.

4.1 Initial Username & Password

IP CAMERA provides two basic purviews for our user: **Administrator** and **Guest**. See the different power as below:

Administrator:

- Default ID: root
- Default Password: pass
- Only password is changeable.
- Full access right to view, control system settings.

Guest accounts:

- ID/Password not necessary.
- Basic view and some action buttons can work.

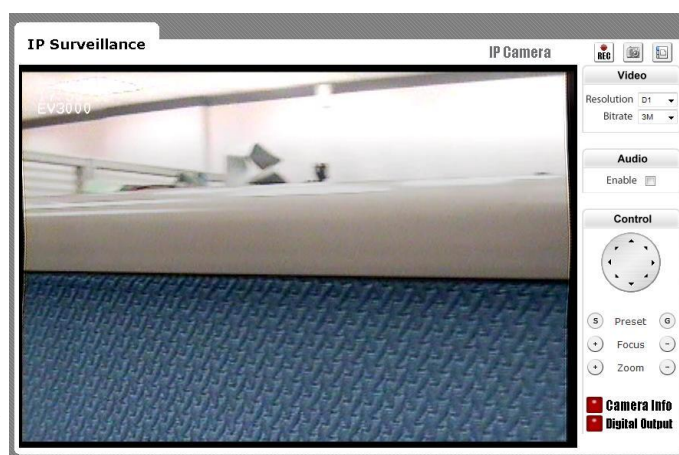
NOTE :

Guest Permission should be enabled to see Guest icon.

4.2 Viewing Web Page

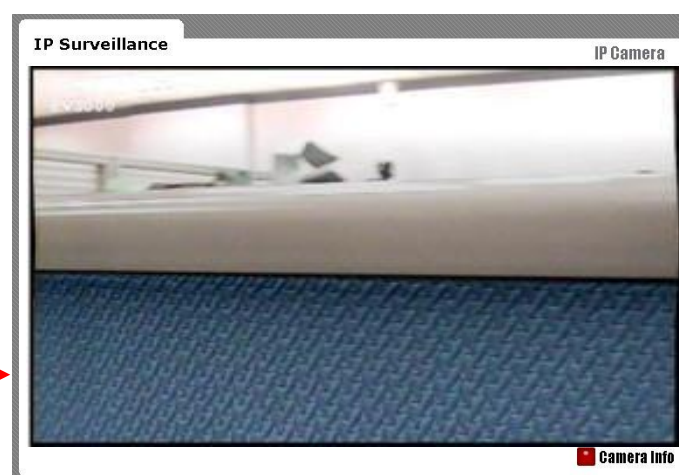
Administrator Mode Viewer:

When you log in successfully with root/pass as **Administrator**, the viewer screen will display as shown below.



Guest Mode Viewer:

Click the “**Guest**” to log in the guest mode. After successful log in as **Guest**, the viewing page will appear as follows. The “**camera info**” button when clicked shows FPS, camera name and resolution values.



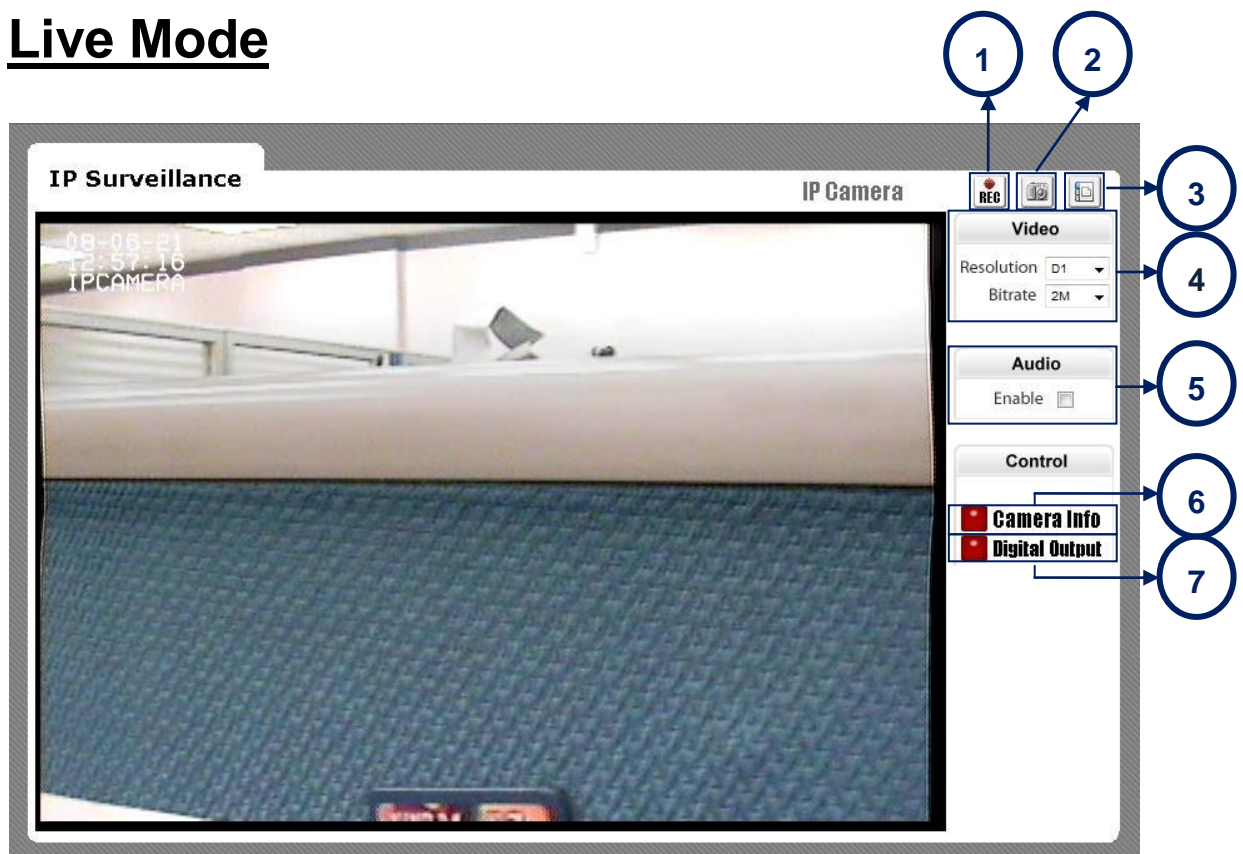
NOTE :

You also can add other user account by yourself. Please make reference to the chapter of **5.2.13 Account** for further detailed description.

5. Webpage Interface Setting

The chapter will explain the web page function display illustration. There are two kinds of mode: “**Live Mode**” and “**Setup mode**”. Several controls options are available on the right side. And OSD is displayed on top left corner of the screen (time, date, camera name)


5.1 Live Mode




Function Illustration

Number	Item	Explanation
1	Live Recording	Record live stream to local HDD
2	Snapshot	Snapshot the picture to your PC
3	Setup	Enter the advance setting of IP CAMERA
4	Video	Set up the Resolution and Bit Rate
5	Audio	Enable/Disable the Audio function
6	Camera Info	Display the Camera information
7	Digital Output	Remote ON/OFF the Digital Output (DO) sensor


5.1.1 Live Recording:

Press this  icon to record live stream image to local HDD. And you can select the save path by yourself. When the record function work, the button will flash

5.1.2 Snapshot:

Press this  icon to snapshot the picture to local HDD. And you can select the save path by yourself. When the snapshot function is finish, you will come back the "Live Mode".

5.1.3 Setup:

Click  icon located on top-right side to enter server settings page. It is a toggle button to switch between Config and viewer pages.

5.1.4 Video:

You can set up the "Resolution" and "Bitrate" here. They will affect the remote video transmission. If the resolution quality is higher, the video transmission will be slowly. According to your network speed select the bitrate value.



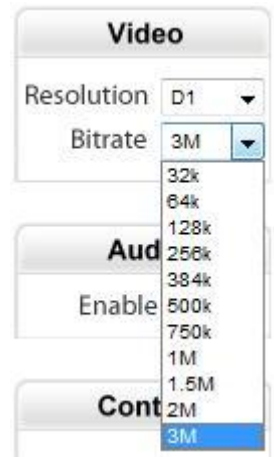
The Resolution value please following table describes resolution values for each video format.



Resolution	QCIF	CIF	D1
NTSC	176X120	352X240	720X480
PAL	176X144	352X288	720X576

The Bit rates value please choose a particular value and it is applied within few seconds. Video on the screen will pause briefly.

The Range:32K/64K/128K/256K/384K/500K/750K/1M/1.5M/2M/3M (bps)

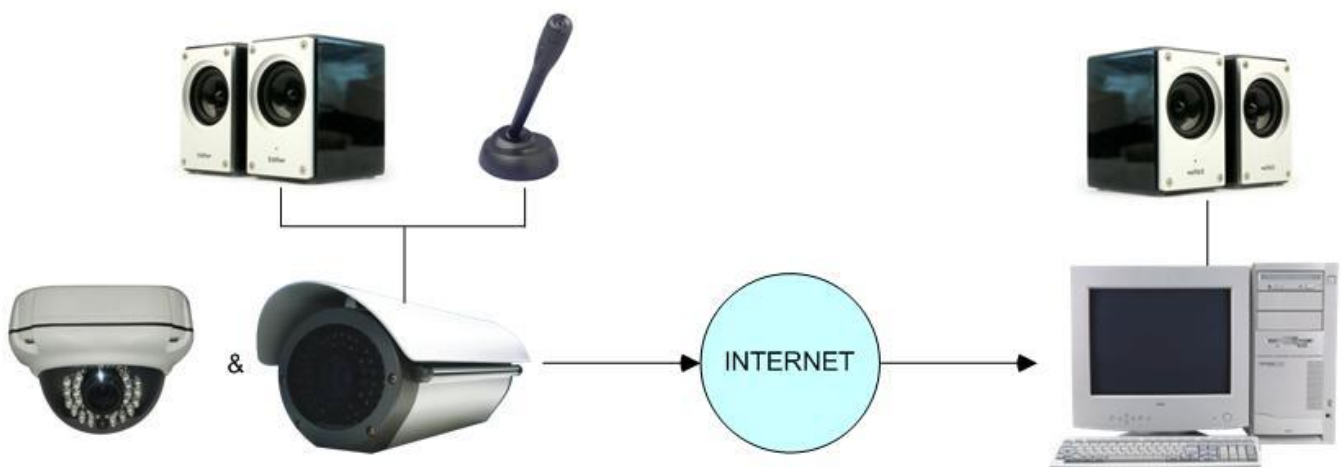
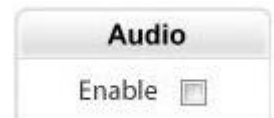


NOTE :

If you want to see the best transmission through WAN, we refer our customer select the 256K or more. But you need to check the network connection speed with local ISP

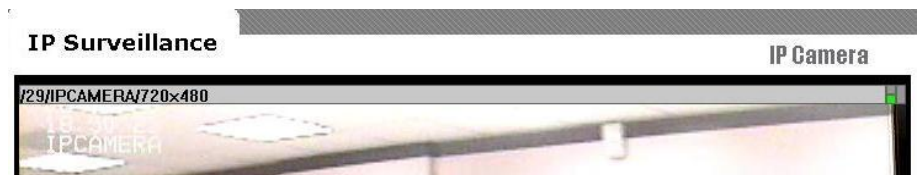
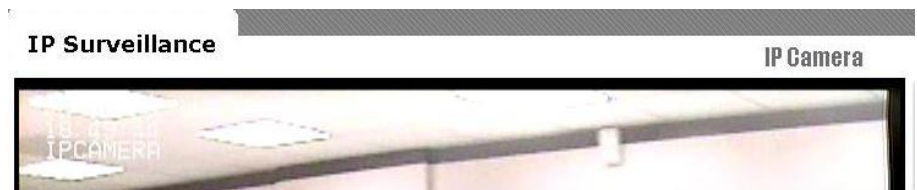
5.1.5 Audio:

Click the Enable check box to work. Enable or disable function for audio will result in video flicker for a second and then return back to normal. This is not an error.



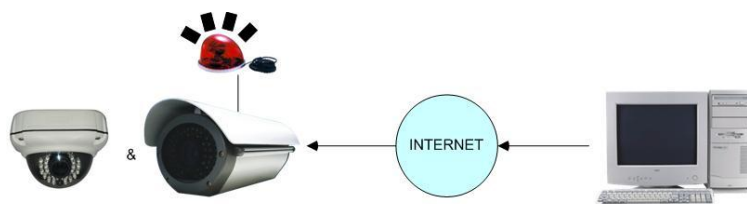
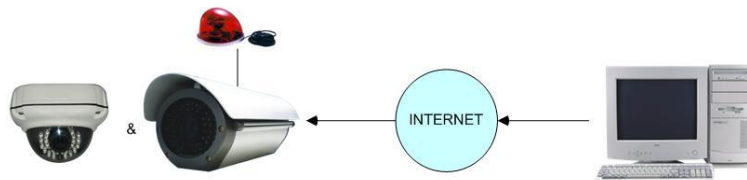
5.1.7 Camera Information:

Shows video information of the transferred data on the upper left corner of the video screen such as frame rate (fps), channel name, resolution.

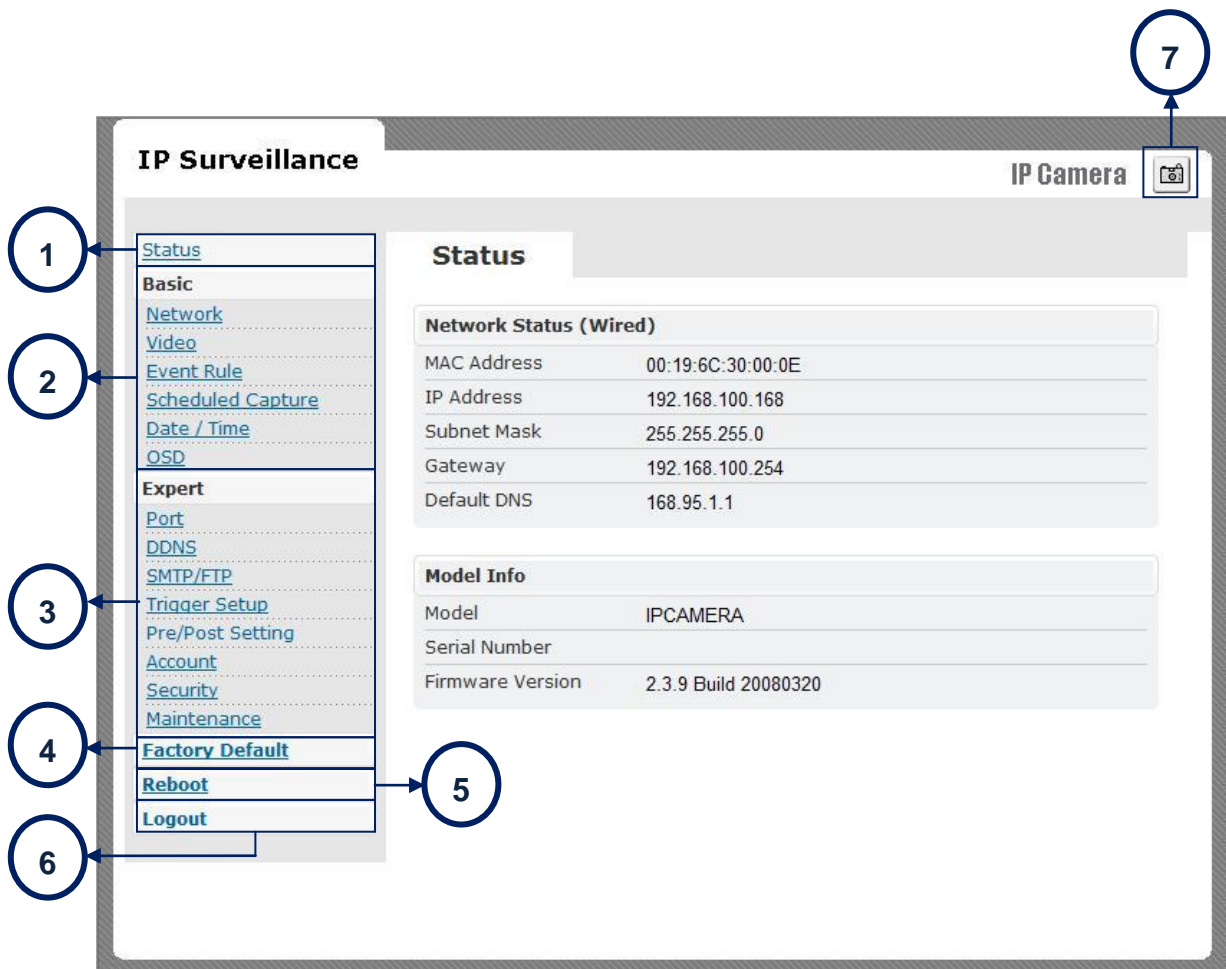


5.1.8 Digital Output:

If your IP CAMERA set up the alarm of DO, you can remote enable / disable the alarm function ON/OFF.



5.2 Setup Mode

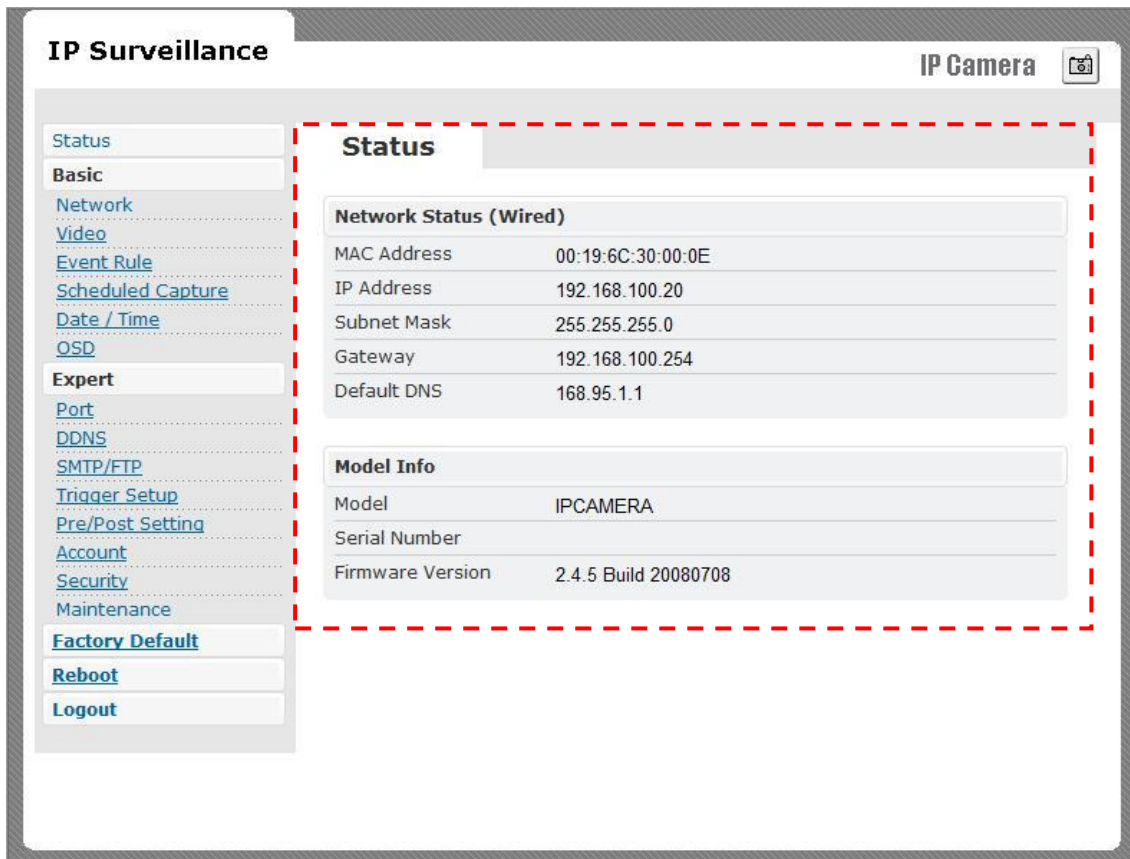


Function Illustration

Number	Item	Explanation
1	Status	Display the IP CAMERA connection status
2	Basic	Provide the basic setting of IP CAMERA
3	Expert	Provide the expert setting of IP CAMERA
4	Factory Default	Reset the factory default setting
5	Reboot	Reboot the IP CAMERA
6	Logout	Leave the setting of IP CAMERA
7	Live	Return to the “ Live Mode ”

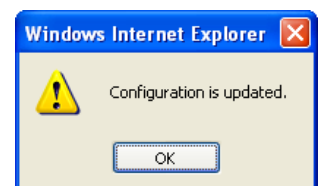
5.2.1 Status:

Initial view of web Config interface is “**Status**” page. Hardware & Firmware information along with network status such as current IP and related details are clearly shown.



NOTE :

Remember to press “**OK**” after you have changed settings in a particular settings page which has “**OK**” button. After few seconds, you can see a confirmation dialog box informing that settings have been updated. Pressing **OK** will return to the same page.



5.2.2 Network:

Three configuration types are available for wired network connection: STATIC IP, DYNAMIC IP (DHCP) & PPPoE. The default mode is the STATIC IP. You can set up the IP address through Internet Browser or IPScan software. But the PPPoE mode need to enter the setting, you must input the detail information from local ISP.

IP Surveillance IP Camera

Network

Static IP **Dynamic IP** PPPoE

Connection Method: Static IP

IP Address	192.168.100.20
Subnet Mask	255.255.255.0
Gateway	192.168.100.254
Default DNS	168.95.1.1

OK

STATIC IP

Network

Static IP [Dynamic IP](#) [PPPoE](#)

Connection Method: Static IP

IP Address	192.168.100.20
Subnet Mask	255.255.255.0
Gateway	192.168.100.254
Default DNS	168.95.1.1

OK

The STATIC IP is the most reliable mode on IP CAMERA. Because of the IP address is always not change from ISP. You always input the IP then remote see the image through I.E Browser. You also combine with the DDNS service to set up.

Always click “**OK**” to save changes in a particular page. Reboot is required and will be automatically triggered after you press “**OK**”. Wait for count down timer to finish and page will refresh automatically and you should see initial login page.

NOTE :

Always use IPScan to find the MAC address after reboot and double check the IP address is correct. If IP was changed in web configuration, you cannot return to initial login page after reboot.

Dynamic IP (DHCP)

The screenshot shows a web interface for network configuration. At the top, there is a 'Network' label followed by a greyed-out input field. Below this, there are three buttons: 'Static IP' (with a blue underline), 'Dynamic IP' (which is highlighted with a light blue background), and 'PPPoE' (with a blue underline). Underneath these buttons, a box displays 'Connection Method: DHCP'. At the bottom center of the interface is an 'OK' button.

You want to allocate Dynamic IP address. The DHCP service will automatic get different IP form WAN or LAN. Please check the service by yourself.

Click “**OK**” button. Reboot is required and will be automatically triggered after you press “**OK**”. Wait for count down timer to finish and page will refresh automatically and you should see initial login page.

NOTE :

Always use IPScan to find the MAC address after reboot and double check the IP address is correct. If IP was changed in web configuration, you cannot return to initial login page after reboot.

PPPoE

Network

Connection Method: xDSL

User ID	pppoe_user
User Password	
MTU	1412
DNS Server	<input type="radio"/> Manual <input checked="" type="radio"/> Auto
DNS	168.95.1.1

PPPoE is used in case network supports PPPoE like xDSL. The service will automatic get different IP form ISP, but the IP will disconnect after 3 days. We suggest combining with the DDNS function. Because of you don't know what time change the IP from ISP (Internet Service Provider).

- **User ID / Password:**

Please check from local ISP. Normally, you got the information that you apply for the PPPoE service.

- **Service Name:**

Service name of ISP. You can keep the blank in this value.

- **MTU:**

Maximum transmission unit of data. If you don't know the value, please keep defaulting. The default value is "1412".

- **DNS Server:**

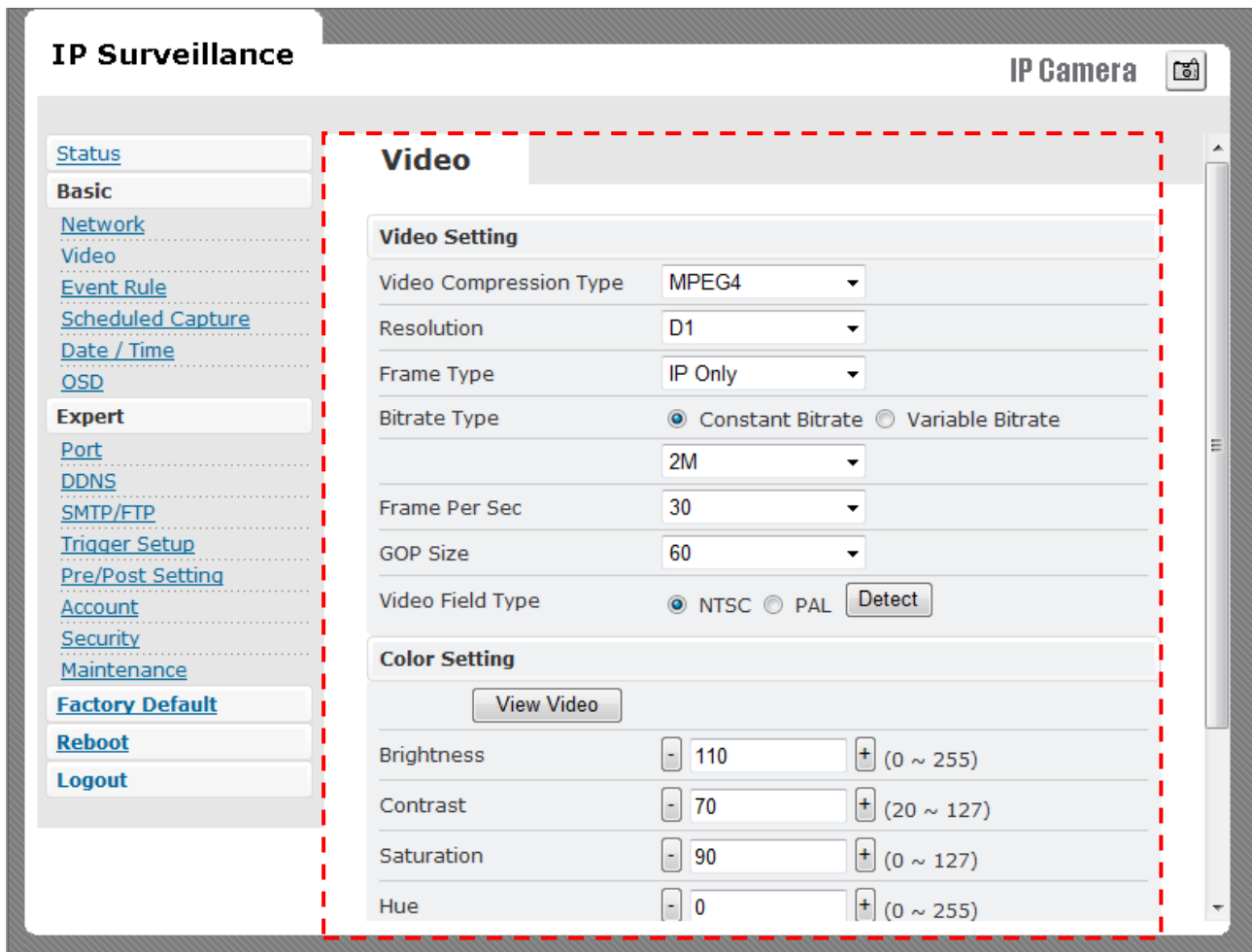
IP address of DNS sever can be set to be created automatically. If xDSL does not use static IP, you should use DHCP.


NOTE :

Always use IPScan to find the MAC address after reboot and double check the IP address is correct. If IP was changed in web configuration, you cannot return to initial login page after reboot.

5.2.3 Video:

You can set up the video values in this page including: Video Setting and Color Setting. According to your requirement and environment, you can adjust the all values to find the best result for your IP CAMERA.



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Video

Video Setting

Video Compression Type	MPEG4
Resolution	D1
Frame Type	IP Only
Bitrate Type	<input checked="" type="radio"/> Constant Bitrate <input type="radio"/> Variable Bitrate
	2M
Frame Per Sec	30
GOP Size	60
Video Field Type	<input checked="" type="radio"/> NTSC <input type="radio"/> PAL <input type="button" value="Detect"/>

Color Setting

Brightness	- 110 +	(0 ~ 255)
Contrast	- 70 +	(20 ~ 127)
Saturation	- 90 +	(0 ~ 127)
Hue	- 0 +	(0 ~ 255)

Video Setting

Video Setting	
Video Compression Type	MPEG4
Resolution	D1
Frame Type	IP Only
Bitrate Type	<input checked="" type="radio"/> Constant Bitrate <input type="radio"/> Variable Bitrate
	2M
Frame Per Sec	30
GOP Size	60
Video Field Type	<input checked="" type="radio"/> NTSC <input type="radio"/> PAL <input type="button" value="Detect"/>

● Video Compression Type

Our IP CAMERA provides two compression formats: MJPEG and MPEG4.

Video Compression Type
MPEG4
MJPEG
MPEG4

Motion JPEG (M-JPEG) is the picture to picture image. The image is the more complete then transfer slowly through Internet.

MPEG4 is the stream data. The image will be collocate then display on the I.E Browser. It transfers fast through Internet.

● Resolution

If the resolution quality is higher, the video transmission will be slowly. According to your network speed select the bitrate value.

Resolution
D1
QCIF
CIF
D1

The Resolution value please following table describes resolution values for each video format.

Resolution	QCIF	CIF	D1
NTSC	176X120	352X240	720X480
PAL	176X144	352X288	720X576

● Frame Types

This setting deals with the Group of Pictures (GOP) structure - which could be a combination of I and P frames.



I - I frames also referred to as Key frames contain information for a complete picture, and can be decoded independent of any other frame. I frames are the largest (and least compressed) frames. Therefore for same quality, they consume high bit rate.

P - P frames are encoded using information from the previous I or P frame, and can only be decoded correctly if the previous I / P frame is available. P frames are smaller than I frames.

I Only / IP Only

I - Highest bit rates for same quality.

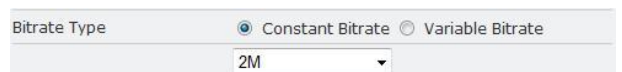
IP - Simple Profile - Medium bit rates for same quality.

NOTE :

When choosing MJPEG streaming, ONLY support "I Only" mode.

● Bitrate Type

Constant and Variable bit rates control allows flexibility in choosing how much bandwidth is available on network and quality of video required.



Constant Bit rates

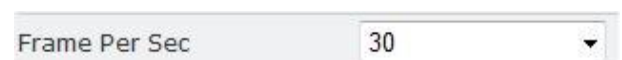
3M / 2M / 1.5M / 1M / 750K / 500K / 384K / 256K / 128K / 64K / 32K

Variable Bit rates

2 ~ 31 (quality is best in case value is "3")

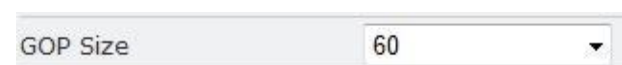
● Frame per Second.

You can set up the image transmission: 1 ~ 30



● Group Size

Adjusts the ration between "I" frames and "P" frames. Lower the group size, better the quality: 5 / 10/ 15 / 30 / 60



- **Video Type**

NTSC / PAL Selection.

Video Field Type

☒ NTSC ☐ PAL

Detect

NOTE :

System can automatically detect input video signal when clicking “detect” icon.

Color Settings

The image shows a 'Color Setting' window with a 'View Video' button at the top. Below it are four rows of sliders: Brightness (set to 110, range 0 ~ 255), Contrast (set to 70, range 20 ~ 127), Saturation (set to 90, range 0 ~ 127), and Hue (set to 0, range 0 ~ 255). Each slider has a minus sign on the left and a plus sign on the right.

Setting	Value	Range
Brightness	110	0 ~ 255
Contrast	70	20 ~ 127
Saturation	90	0 ~ 127
Hue	0	0 ~ 255

Fine adjustments to video quality can be made using more detailed settings as shown below.

- **BRIGHTNESS**

Adjusts the image on a scale from darkness to brightness.

- **CONTRAST**

Adjusts the extent to which adjacent areas on a video differ in brightness

- **SATURATION**

Adjusts the chromatic purity of video thereby effecting vividness.

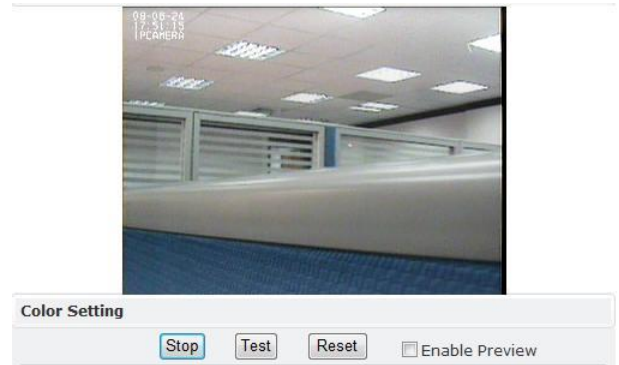
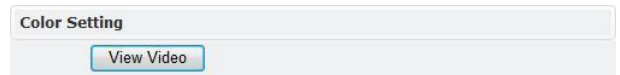
- **HUE**

Adjusts the video by effecting color depth

● VIDEO PREVIEW

Preview makes choices easier when tuning video settings for specific locations. By clicking the **View Video** button, you can see the following

Click **Stop** to exit preview. You could change other video parameters and press **TEST** to see how the changes look like. You can press **Reset** anytime to return back to the default settings. Click **Enable Preview** checkbox to save the current settings – and its takes effect right after settings have been changed.



Max Client Limit

 A screenshot of a web interface panel titled "Max Client Limit". It contains a label "Max Number of Clients" followed by a text input field containing the value "10". To the right of the input field is a range indicator "(0 ~ 10)".

Maximum users (client) limit allows users accessing the video stream. For higher bit rates and resolution, the client limit is much lower and vice versa.

Maximum number of clients can be restricted depending on how much video quality is required and network band with is available.

0 ~ 10 (value 0 means maximum allowable)

NOTE :

Do not forget to press **"OK"** button to save your setting.

5.2.4 Event Rule:

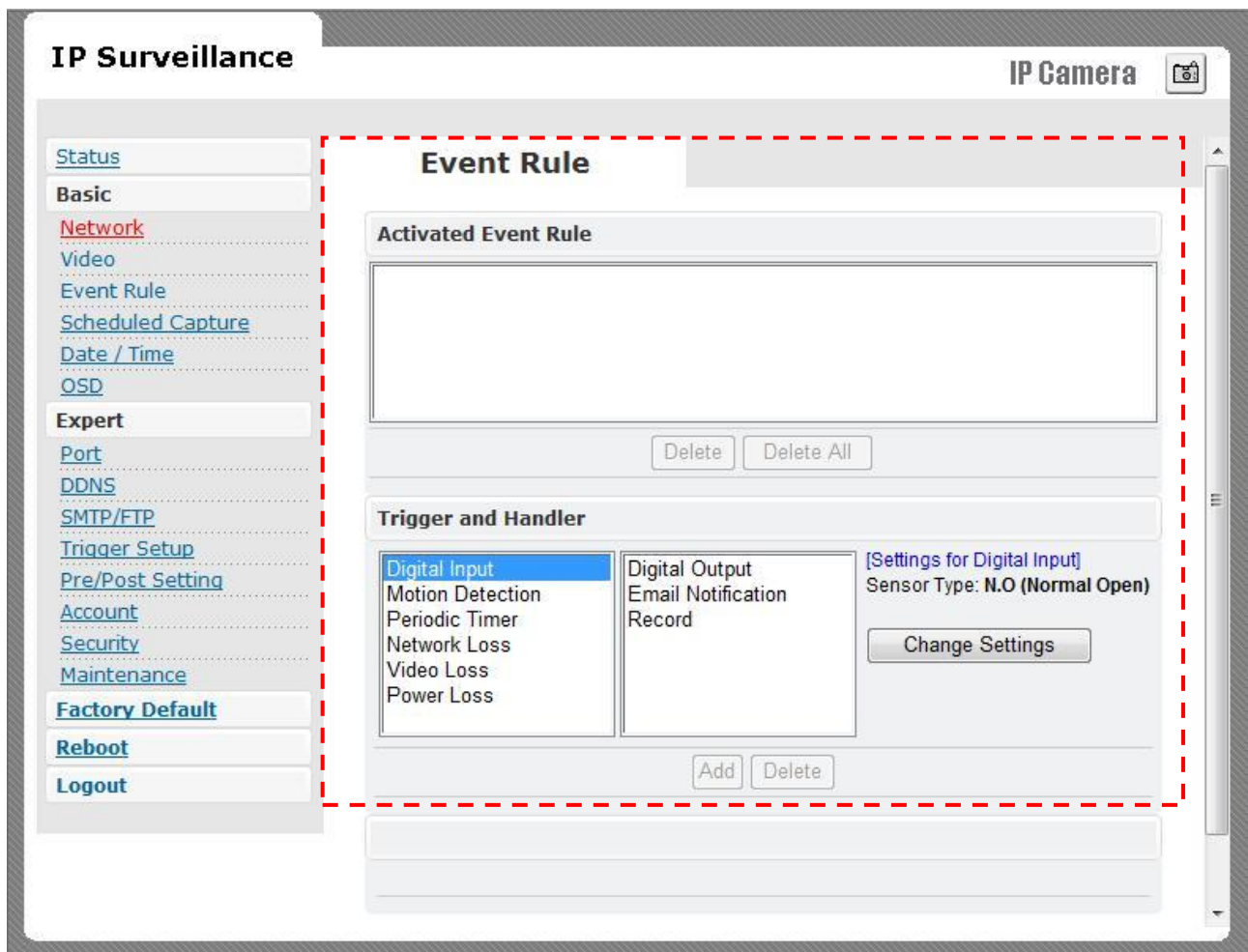
You can define the event rule according to your requirement. Set up the event input and output by yourself. Select an event and select corresponding action. Click **add** button and notice that is added in the **Rule lists** Information box. Rule list items can be deleted individually or wholly by clicking **Delete All** button.

- **Events handled by IP CAMERA**

1. Digital Input
2. Motion Detection
3. Periodic Timer
4. Network Loss
5. Video Loss
6. Power Loss

- **Actions supported by IP CAMERA**

1. Digital Output
2. E-mail Notification
3. Record



Detection Output	Digital Output	Email Notification	Record
Digital Input	X	X	X
Motion Detection	X	X	X
Periodic Timer	X	X	
Network Loss	X		X
Video Loss	X	X	
Power Loss		X	

Trigger and Handler (INPUT)

● Digital Input

Choose the “**Change Setting**” button to “Trigger Setup” setting, either “Normal Open” or “Normal Close” between “Sensor Type”

● Motion Detection

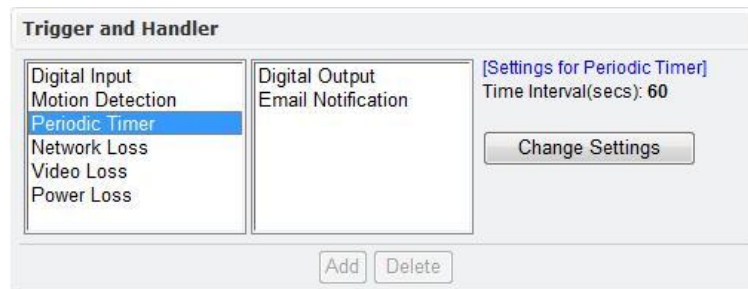
If motion is detected on the areas defined on the video stream, an event will be triggered based on the rule lists.

Choose the “**Change Setting**” button to “Trigger Setup” setting, set up the setting of motion detection on “Motion Detection”.

● Periodic Timer

In a pre-defined time interval, an event will be triggered based on the rule lists.

Choose the “**Change Setting**” button to “Trigger Setup” setting, set up the time on “Time Interval”.



● Network Loss

When system detect network loss, an event will be triggered

● Video Loss

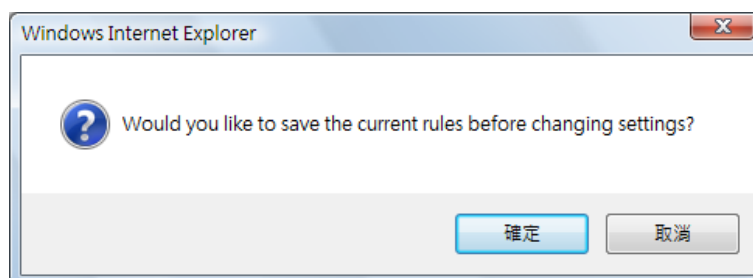
When system detect Video loss, an event will be triggered. You also find the video loss setting in the “Trigger Setup.”

● Power Loss

When system detect system power loss, an event will be triggered

NOTE :

The trigger input setting please make reference to the chapter of **5.2.11 Trigger Setup** for further detailed description.



Trigger and Handler (OUTPUT)

● Digital Output

If you set up the function, the IP CAMERA would active digital output on trigger input detection. You can set up the Output Duration second and Trigger Interval Second.

Trigger and Handler

Digital Input	Digital Output	Output Duration(sec)
Motion Detection	Email Notification	1
Periodic Timer	Record	
Network Loss		
Video Loss		
Power Loss		

Trigger Interval (sec): 0
* Interval maximum is 3600 sec

Add Delete

● E-mail Notification

E-mail can be sent based on occurrence of an event listed out in “Rule Lists”. But you must input the mail account information first.

Trigger and Handler

Digital Input	Digital Output	
Motion Detection	Email Notification	[Settings for Email Notification] SMTP Server: smtp.mail.com SMTP Port: 25 Auth User: smtp Recipient's Email: user@smtp.mail.com Sender's Email: user@smtp.mail.com Enable Attachment: No
Periodic Timer	Record	
Network Loss		
Video Loss		
Power Loss		

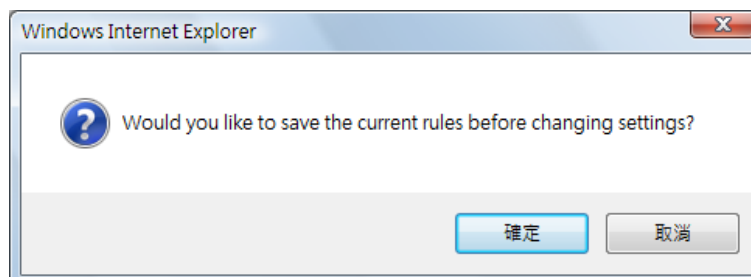
Trigger Interval (sec): 0
* Interval maximum is 3600 sec

Change Settings

Add Delete

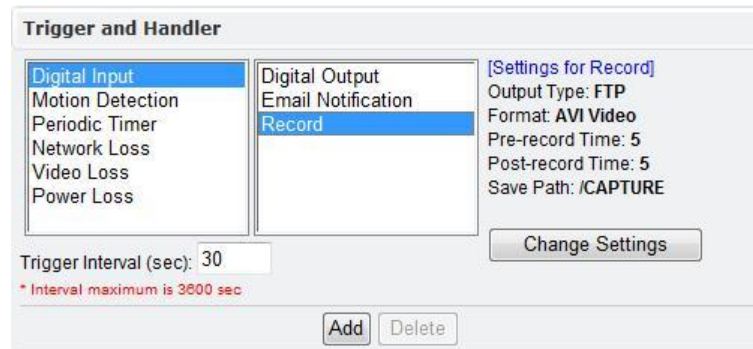
NOTE :

The mail setting please make reference to the chapter of **5.2.10 SMTP/FTP** for further detailed description



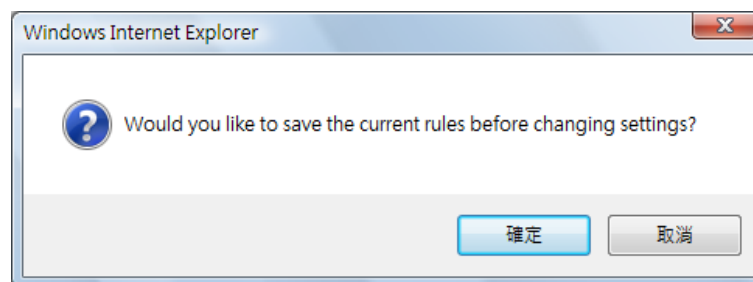
- **Record**

Record file will be sent to FTP on occurrence of an event listed out in “Rule Lists”. The trigger Interval is the 30 seconds.



NOTE :

The record setting please make reference to the chapter of **5.2.10 SMTP/FTP** and **5.2.12 Pre/Post Setting** for further detailed description



5.2.5 Schedule Capture:

Choose **Enable** checkbox to record snapshot by schedule or event triggered way.

Schedule capture

1. Select schedule day check boxes (can multi-select)
2. Define start and end time
3. Choose output type as “FTP upload”
4. Define related output parameter, such as interval time, save path ...

IP Surveillance IP Camera

Scheduled Capture

Scheduled Capture

Enable ☐

Schedule

Trigger By

Schedule Day

☐ Monday
☐ Tuesday
☐ Wednesday
☐ Thursday
☐ Friday
☐ Saturday
☐ Sunday

Start Time 8 : 0

End Time 18 : 0

Output Type FTP Upload

Interval Time(secs) 30

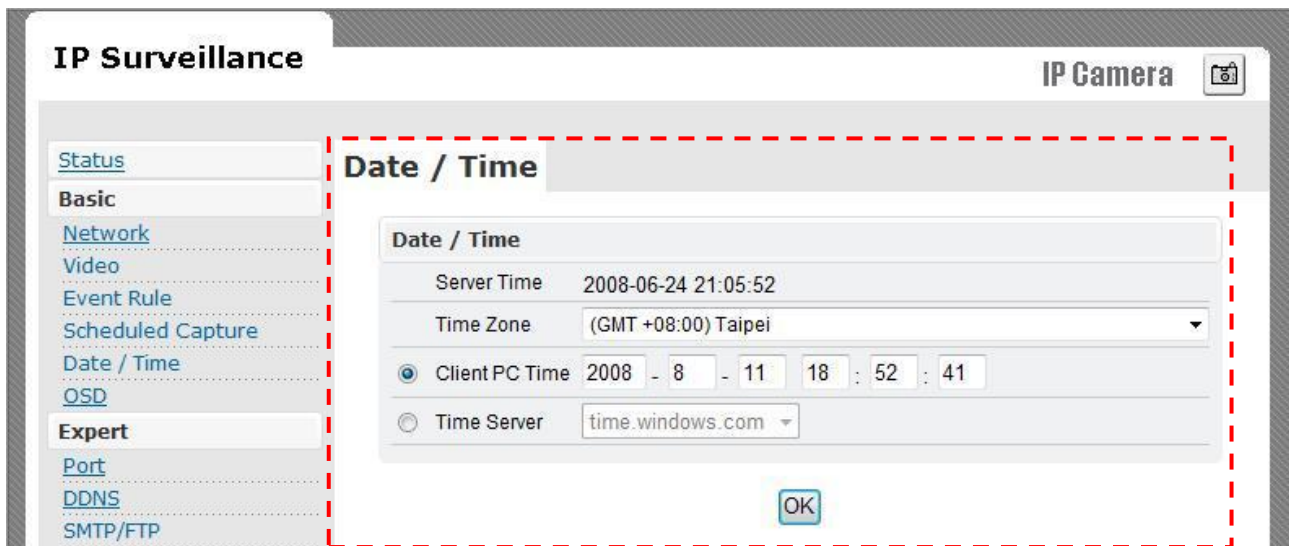
Filename Prefix CAMERA

Save Path CAPTURE (one layer)

[Settings for FTP Upload]
 FTP Server: 192.168.1.1
 FTP Port: 21
 Login User: ftpuser

[Change Settings](#)

5.2.6 Date & Time:



Time Zone

You can select the time format of GMT according to the local time.

Client PC Time

Date and time settings can be synchronized with PC directly by clicking “Client PC time” check box. Click “OK” after you have made selection.



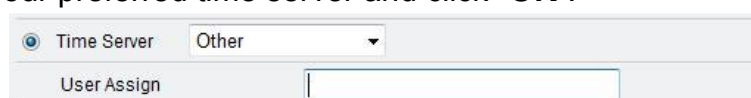
Time Server

Time zone can be chosen by choosing either of the two time servers listed

Either of the two time servers can be chosen to synchronize video server time. They are listed as follows should you choose **Time Server**. Click “OK” after you have changed settings.



If you want to manually input time server, choose “Other” then you can find a manual input edit box appear. Key in your preferred time server and click “OK”.



5.2.7 OSD:

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OSD

Text Color

Foreground Color

Red (0~255)

Green (0~255)

Blue (0~255)

OSD Position

X Axis (10 ~ 620)

Y Axis (10 ~ 420)

Date

Enable ☒

Time

Enable ☒

Channel Name

Text Color

Click on your desired choice of color. Values will change accordingly for R, G, and B. If you desire some other color, you can manually define those corresponding R, G, B values in the boxes as appropriate.

OSD Position

Position of OSD can be changed by defining the X, Y values.

OSD Position		
X Axis	<input type="text" value="20"/>	(10 ~ 620)
Y Axis	<input type="text" value="10"/>	(10 ~ 420)

Time

Date & Time can be individually enabled/disable by “Date” & “Time” checkboxes.

Time	
Enable	<input checked="" type="checkbox"/>

Channel Name

Channel name can be shown / hidden by the channel name “**Enable**” checkbox. It can be manually typed in the “**Channel name**” text box and changes can be noticed.

Channel Name	
Enable	<input checked="" type="checkbox"/>
Channel Name	IPCAMERA

5.2.8 Port:

The values of WEB and AV port can be changed as necessary.

Web

Web Port default is 80.

Video + Audio

Default is 1852 for video/audio data transmission.

NOTE :

Suggest to use the default port setting. If you combine with the router, please remember setup the “Virtual Server” setting. please make reference to the chapter of **Appendix E: How to set up IP CAMERA through Router** for further detailed description

5.2.9 DDNS:

DDNS is the function that maps an IP address to a host name. If IP CAMERA set to dynamic IP address, the host name by DDNS (Dynamic Domain Name Service) must be used instead of the IP address for credibility of network connection.

IPv4 DDNS

1. Check “**Enable**” and select a service out of available two.
2. Both services are required to register some items on each DDNS service site.
3. For use of “**ddns.nu**” register at www.ddns.nu and for **dyndns** find the information at dyndns.org

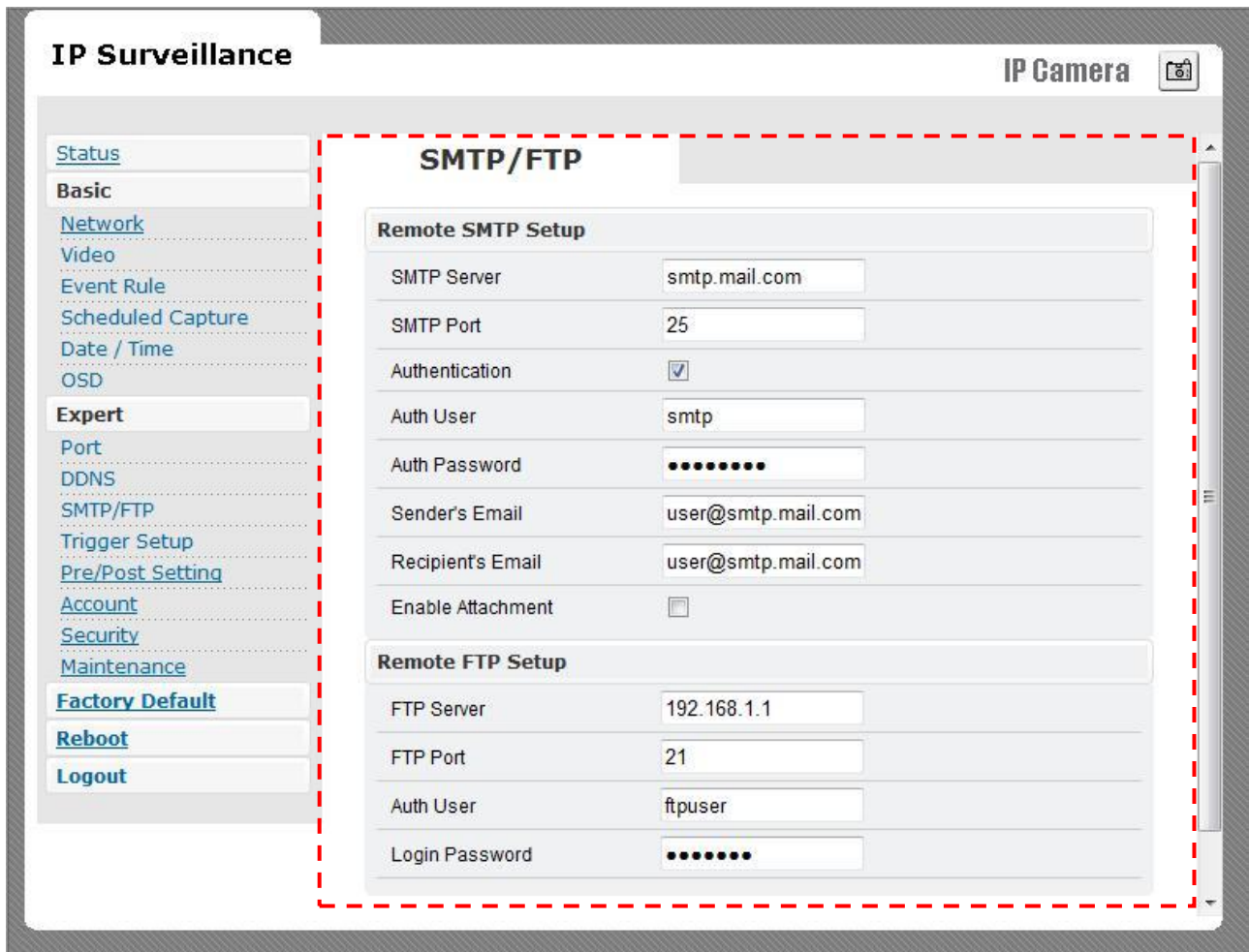
Dyndns.org

Please input the ddns.nu or dyndns.org account information.

NOTE :

please make reference to the chapter of **Appendix C: DDNS Application** for further detailed description

5.2.10 SMTP/FTP:



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SMTP/FTP

Remote SMTP Setup

SMTP Server	smtp.mail.com
SMTP Port	25
Authentication	<input checked="" type="checkbox"/>
Auth User	smtp
Auth Password	••••••••
Sender's Email	user@smtp.mail.com
Recipient's Email	user@smtp.mail.com
Enable Attachment	<input type="checkbox"/>

Remote FTP Setup

FTP Server	192.168.1.1
FTP Port	21
Auth User	ftpuser
Login Password	••••••••

An e-mail notification & FTP upload service offered by IP CAMERA notifies events or uploads snapshots to a remote FTP server.

Remote SMTP Setup

Fill in the details of SMTP server such as port number, user name, password, server name information. If you would wish to send attached snapshots, please check the appropriate check box.

Sometimes Authentication is not always required by SMTP servers. Wherein only the SMTP server name and e-mail address details are enough to be input.

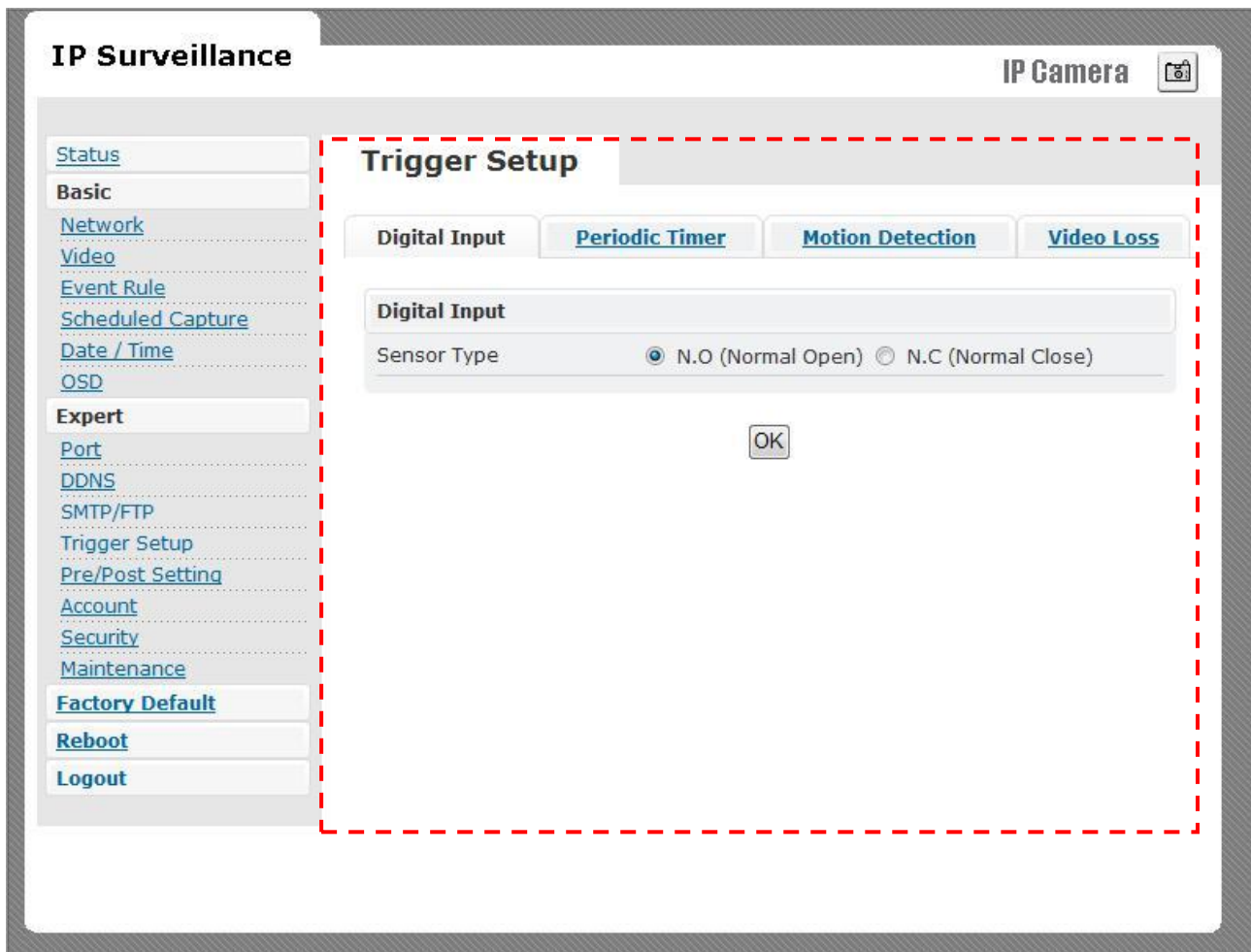
Remote SMTP Setup	
SMTP Server	smtp.mail.com
SMTP Port	25
Authentication	<input checked="" type="checkbox"/>
Auth User	smtp
Auth Password	••••••••
Sender's Email	user@smtp.mail.com
Recipient's Email	user@smtp.mail.com
Enable Attachment	<input type="checkbox"/>

Remote FTP Setup

Fill in the details of remote FTP server, port number and user name, password.

Remote FTP Setup	
FTP Server	192.168.1.1
FTP Port	21
Auth User	ftpuser
Login Password	••••••••

5.2.11 Trigger Setup:



Four different types of EVENTS can be configured. And you need to combine with “Event Rule” setting. Please make reference to the chapter of **5.2.4 Event Rule** for further detailed description.

Digital Input

According to your sensor installation, choose sensor type either “Normal Open” or “Normal Close”.

Digital Input

Sensor Type
☒ N.O (Normal Open)
☐ N.C (Normal Close)

Periodic Timer

Timer interval can be set in terms of seconds. This will trigger an event when the time out is achieved.

Periodic Timer	
Time Interval(secs)	60

Motion Detection

● Enable type

Enable motion detection by “Always” or “Schedule” mode. When choosing schedule mode, define schedule day and start/end time.

Input Setting	
Enable	<input type="checkbox"/>
Enable Type	Always
Schedule Days	<input type="checkbox"/> Monday <input type="checkbox"/> Tuesday <input type="checkbox"/> Wednesday <input type="checkbox"/> Thursday <input type="checkbox"/> Friday <input type="checkbox"/> Saturday <input type="checkbox"/> Sunday
Start Time	8 : 0
Stop Time	18 : 0

● Detection Area

Total viewing screen area is divided into 9 square blocks and each of them is called area 1, area 2 etc., Click specific areas you want motion detection to be enabled. If a detection area is selected color changes to dark gray.

Detect Area	
<div> <div>08-08-26</div> <div>04:48:51</div> <div>IPCamera</div> </div>	1
	2
	3
	4
	5
	6
	7
	8
	9

Selected (Red)

Refresh

- **Sensitivity**

Defines sensitivity of the motion detection. The range of the value is 1 to 100.

Sensitivity	20	(1 ~ 100)
-------------	----	-----------

- **Motion Vector**

To detect even slightest movement for objects in selected area, please select a lower motion vector value. The range of the value is 3750 to 4650.

Motion Vector	4000	(3750 ~ 4650)
---------------	------	---------------

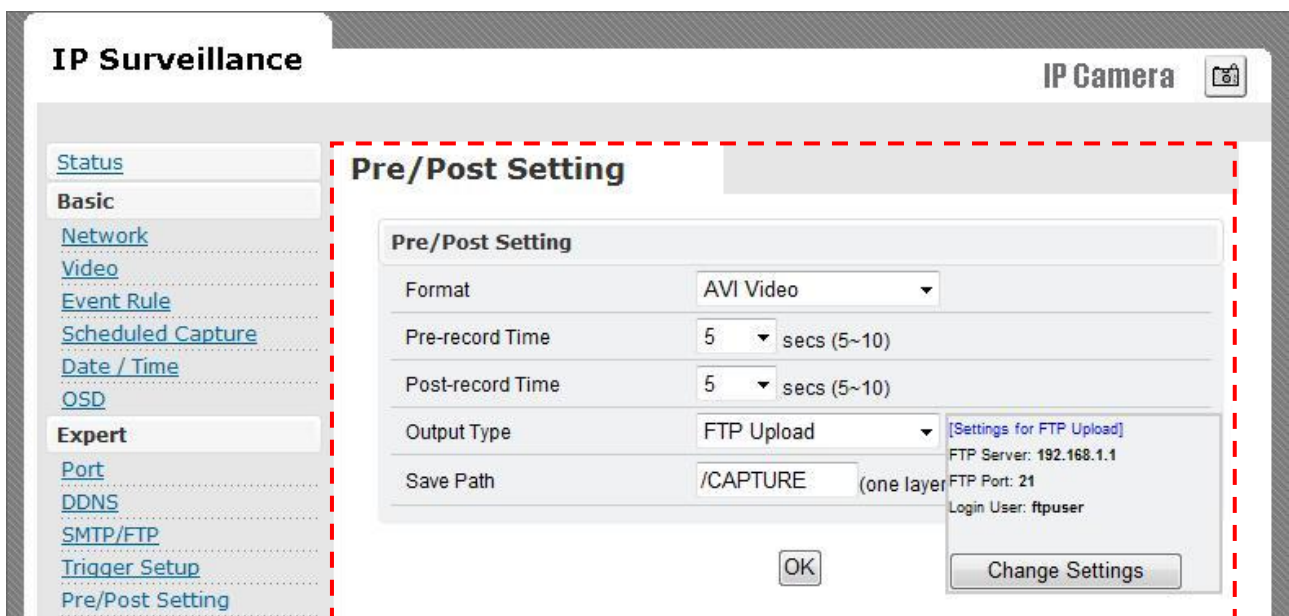
- **SAD**

To only detect flashing light or any such significant activities on immovable objects, low SAD value should be chosen. In most cases, high SAD level is recommended. The range of the value is 20 to 150.

SAD	80	(20 ~ 150)
-----	----	------------

Motion detection enabled areas look as shown below. A simple click can select any of the boxes on detect area.

5.2.12 Pre/Post Setting:



These parameters decide Pre/Post buffer stream format type and duration. Administrator can choose format as “AVI Video” or “JPEG Picture” with Pre/Post time duration.

Click the “**Change Setting**” to modify the FTP Upload values.

5.2.13 Account:

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Account

User ID	PTZ	V/S	D/O	
root	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Password

User ID	Password	Confirm	PTZ	V/S	D/O
<input type="text"/>	<input type="password"/>	<input type="password"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

* Password length must be 4~12 characters

[Add](#)

Guest Permission

Enable ☒ [OK](#)

Account Limitations

Administrator can add up to a maximum of “5” users and assign properties for each of them.

Administrator can create user accounts. Login as an administrator and create user accounts by pressing “**Add**”. Each account has PTZ, Video settings and Digital Out privileges. They can be turned on or off anytime by the administrator.

There are limits on user name and password length and will be notified by dialog boxes if the user name/password exceeds or under-runs that limit.

For each account, guest permissions can be turned ON/OFF. Any time, an account’s settings can be modified by pressing the “**Modify**” button.

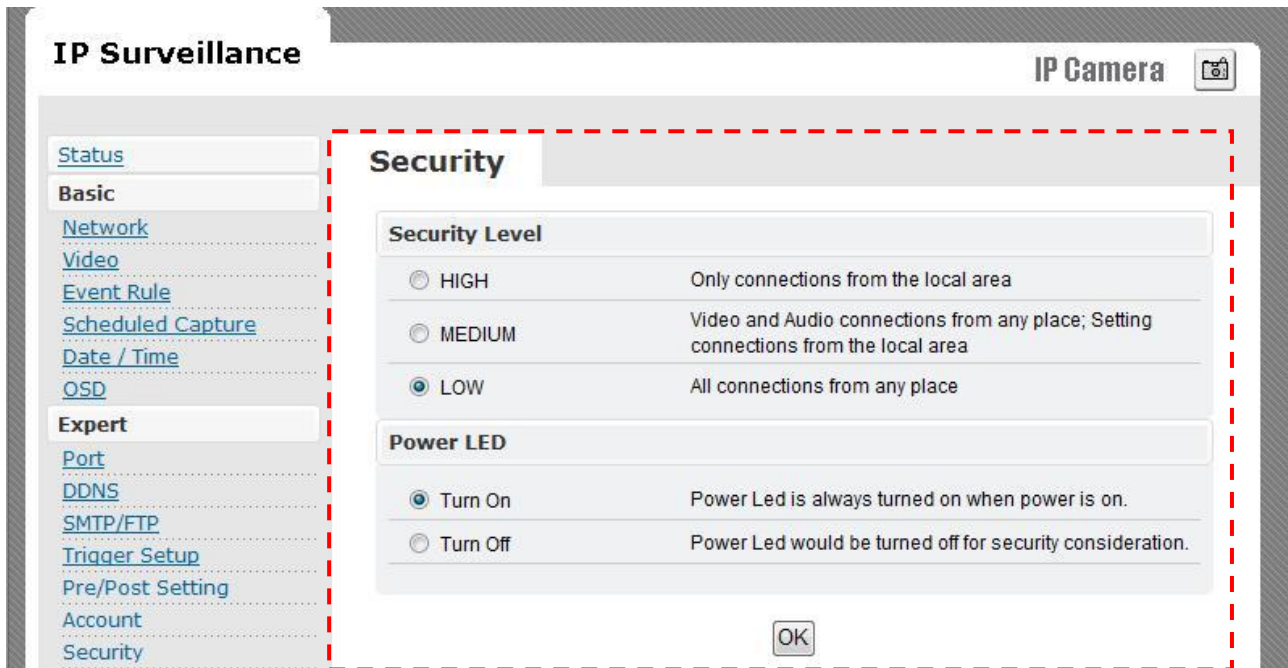
Guest Permissions

Guest account can be turned ON/OFF anytime.

NOTE :

Administrator account password can also be modified by “**Password**” button. Changing password needs confirmation.

5.2.14 Security:



The basic setting of Security Level is **LOW** by default. And the basic setting of Power LED is **TURN On** by default. The different Level will provide other access permission for users.

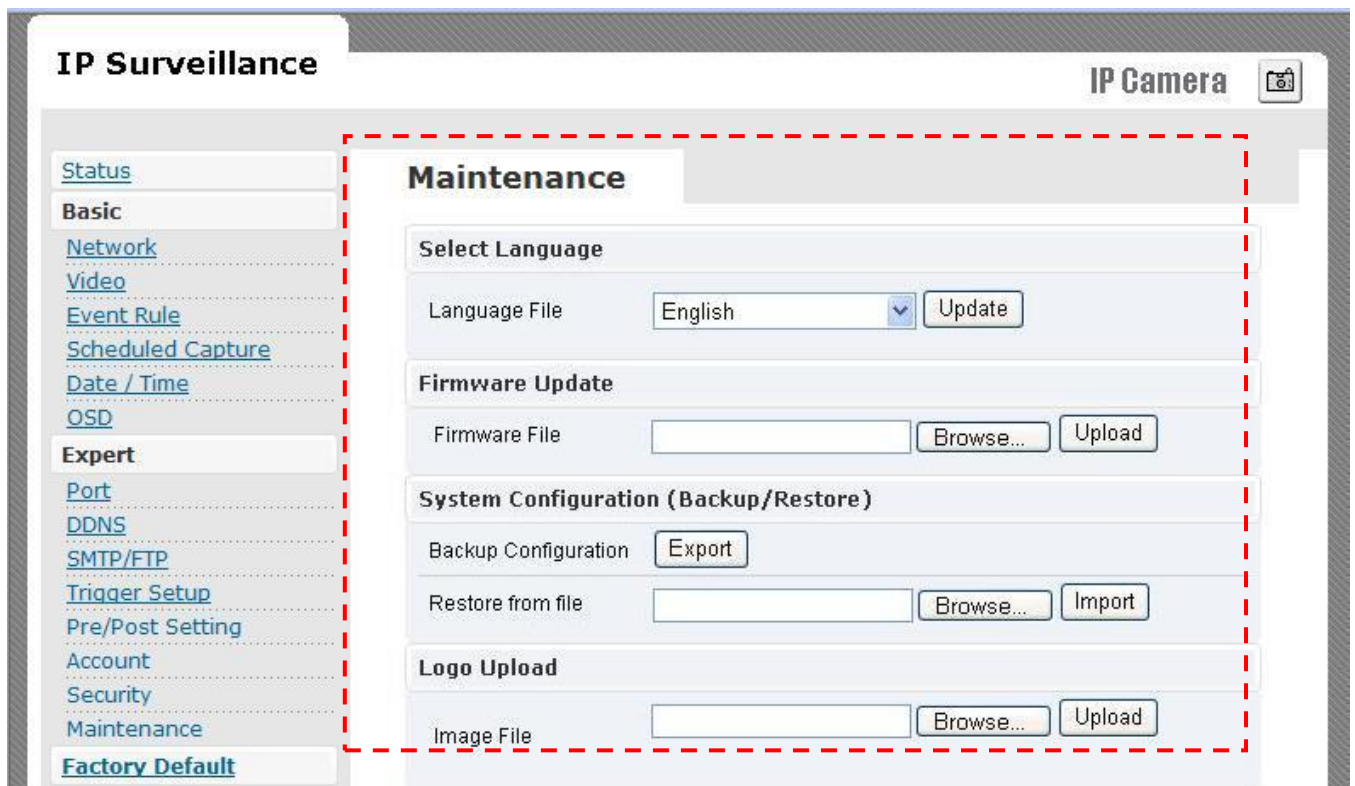
Security Level

- **HIGH**
ONLY LAN connections are allowed.
- **MEDIUM**
Video and audio connections from any location and settings from LAN are permitted.
- **LOW**
All connections from any location are permitted.

Power LED

- **Turn On**
Default value, power LED will always be on during operation.
- **Turn Off**
Config power LED as off during operation.

5.2.14 Maintenance:



Language

Default settings are in English. There are four kinds of language: English, Deutsch, Traditional Chinese and Simplified Chinese. A choice of requirement language is available.

Firmware update

Firmware update binary file can be obtained from your vendor. Choose that and click **upload**. When uploading is done, reboot is required and will be automatically triggered.

NOTE :

DO NOT power off during upgrade process, follow system dialog to finish upgrade procedure.

System Configuration (Backup/Restore)

You can backup current configuration profile as a file and restore any stored configuration profile.

Logo Upload

You can upload your computer logo to setting website of IP CAMERA.

NOTE :

The Logo request the information: **Size:** 189x55 ; **Format:** .JPG or .GIF ; **File size:** under 10K

5.2.15 Factory Default:

After a confirmation dialog box, clicking **OK** button, will load default settings and do a reboot. You will see the reboot countdown timer running. Once done, you will see the login page. Please login with root/pass.



5.2.16 Reboot:

If you click **OK** on the dialog box, you will see the reboot countdown timer running. Once done, you will see the login page. Please login with root/pass or other appropriate login information.



5.2.17 Logout:

To return to the login screen, simply click **logout**. You should see yourself in the login page within seconds.

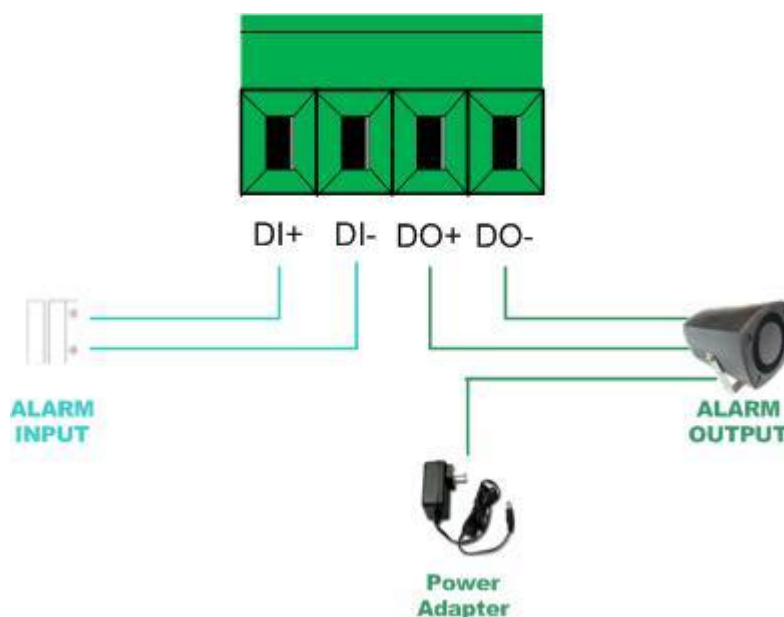
Appendix A: How to set up the Alarm Input & Output

The Combo Cable supply the extra trigger-in & out alarm device. The IP CAMERA only receive TTL/COMS alarm signal that the LOW & HIGH of potential or the N.O & N.C state.



- **ALARM INPUT & OUTPUT :**

You can extra connect the one alarm input & output. Please connect the device directly. The security setting could support N.C or N.O function through Web Setting. Please make reference to the chapter of **ALARM ENABLE**.



Appendix B: How to set up your PC IP information

Please follow the steps below to set up your PC:

Go to Start → Settings → Control Panel.

Click “Network and Internet Connections”.



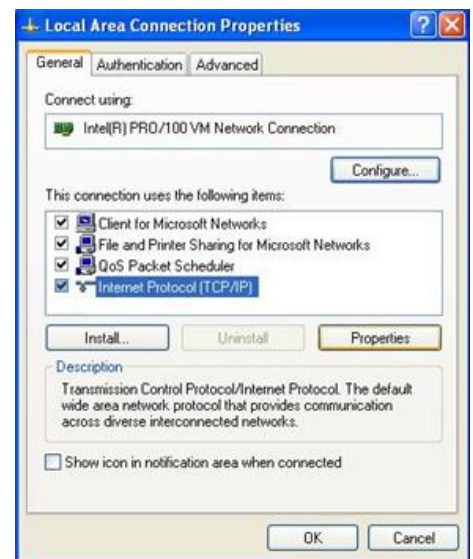
Click “Network Connections”.



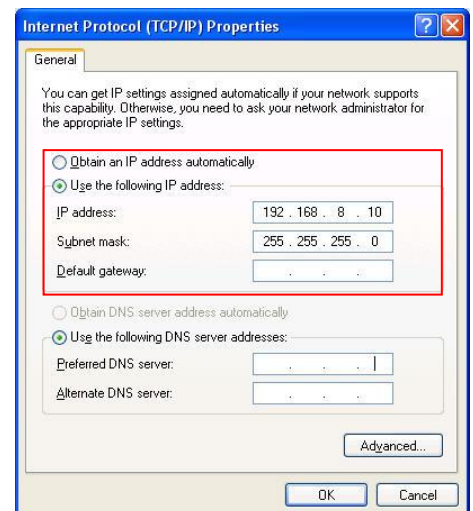
Highlight the icon “Local Area Connection”, right click your mouse, and click “Properties”.



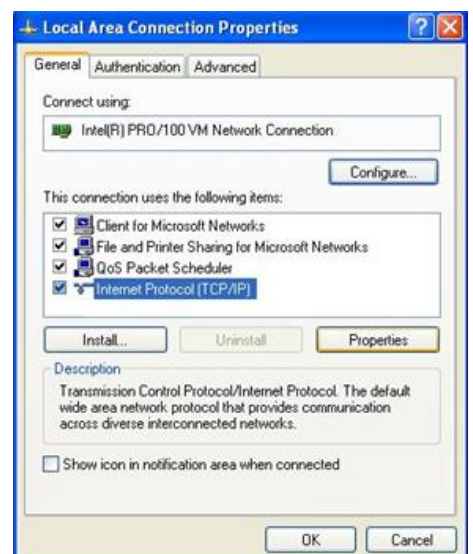
Highlight “Internet Protocol (TCP/IP)”, and then press “Properties” button.



Choose “Use the following IP address”, and then follow the figure to input the IP address and Subnet mask. Finally, press OK to exit the “Internet Protocol (TCP/IP) Properties” window.



Press Close button to close the “Local Area Connection Properties” window, and try to connect the DVR through I.E Browser.



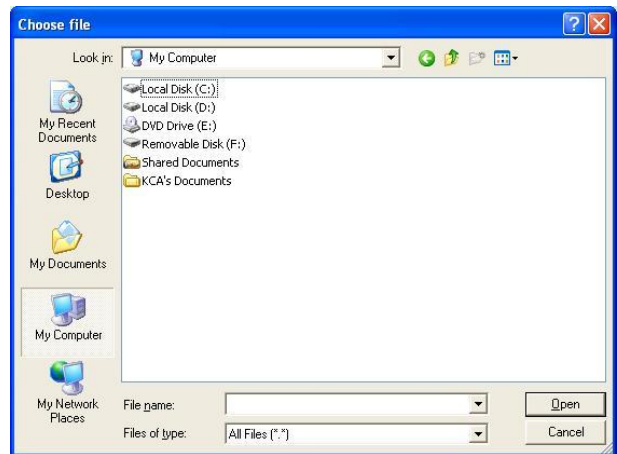
Appendix C: The IP CAMERA firmware upgrade

Click the “**Maintenance**” selection to start firmware update, but please confirm following steps.

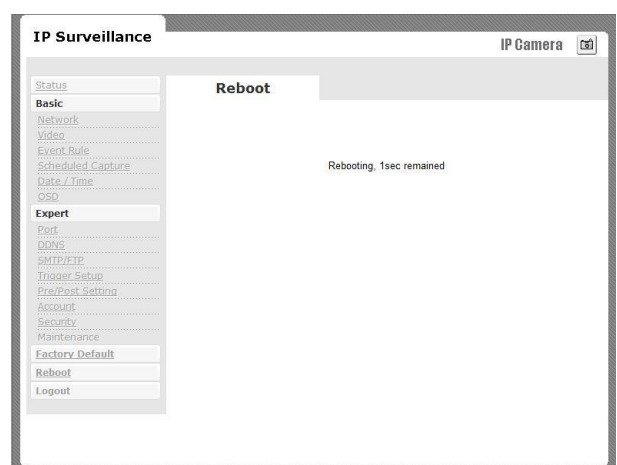
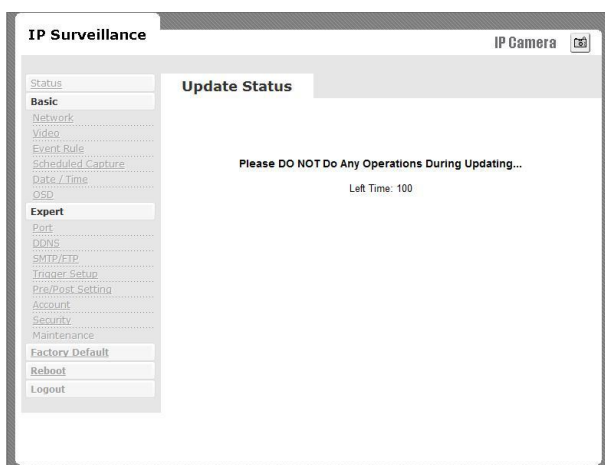
1. Get the firmware from IP CAMERA supplier
2. The file name would be “XXX.BIN”.
3. Click the “**Browse...**” on the Firmware Update selection.



4. Select the “XXX.BIN” file from your PC.



5. Click the “Upload” to upgrade the firmware. Please wait a moment (200 sec)



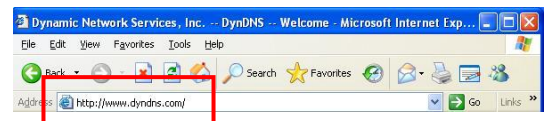
NOTE :

If your network type is not static IP. The page will not refresh to login page.

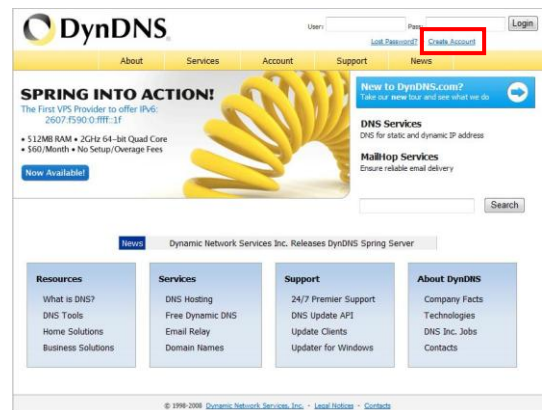
Appendix C: DDNS Application

The DDNS service will provide the function. The domain name corresponds with IP address. But you need to apply for account from DynDns.org website. The DynDns.org website provides the free service to the world's user. This chapter will teach the step by step method, please follows the function illustration as below:

1. Please input the "DynDns.org" website (<http://www.dyndns.com/>) on Internet Explorer then click the "Connect" button.



2. If you have the account in the DynDns.org, you can skip the illustration to no.9. However, if you don't have the account, please click the "Create Account" button through the left-mouse.



3. You will see the table of account, and then input the needful information such as: "User Information" and "Terms of Service". You can input other information by yourself.

1

User Information

Username: kcajames

Email Address: james@kca.com.tw

Confirm Email Address: james@kca.com.tw

Password: *****

Confirm Password: *****

2

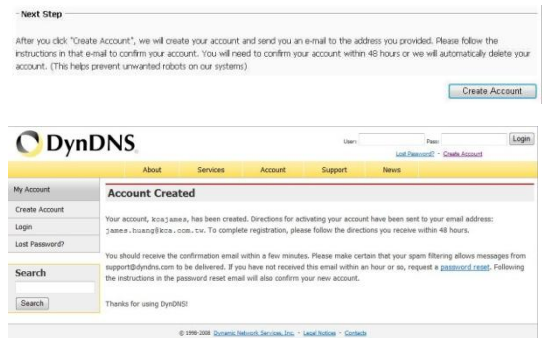
Terms of Service

Please read the acceptable use policy (AUP) and accept it prior to creating your account. Also acknowledge that you may only have one (1) free account, and that creation of multiple free accounts will result in the deletion of all of your accounts.

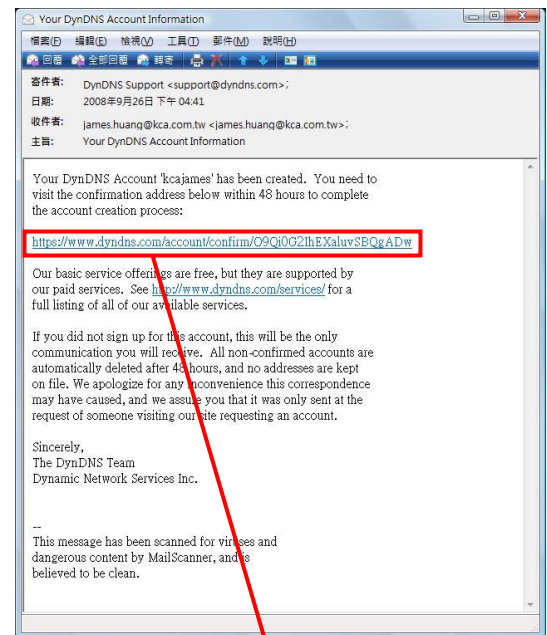
I agree to the AUP: ☒

I will only create one (1) free account: ☒

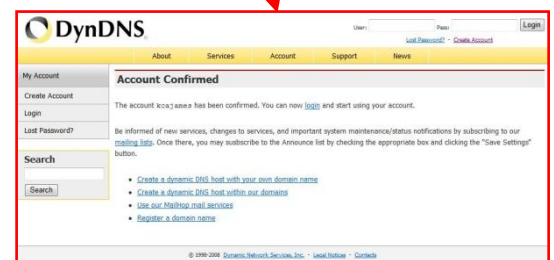
4. After input finish, please click the “Create Account” button. If the data is right, the website will display the “Account Created” information



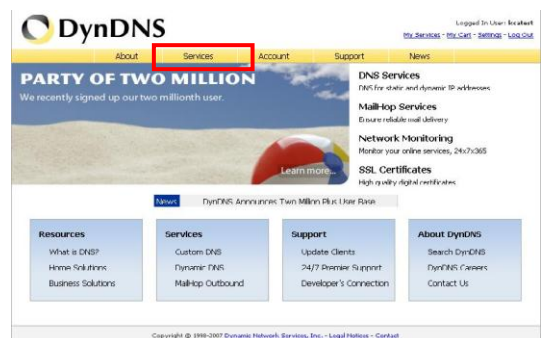
5. You will receive the check mail from DynDns.org. Please check your mail. If you receive the mail, please visit the confirmation address to complete the account creation process.



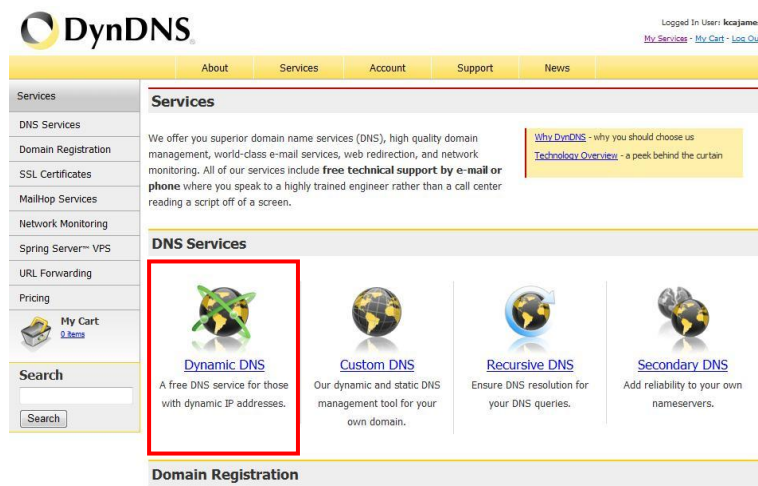
6. Click the red square to finish the creative account.



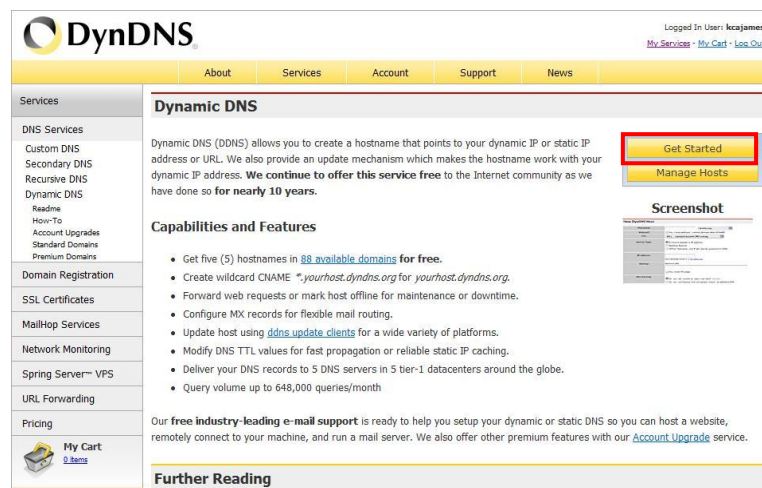
7. You can login to DynDns.org, please input the username and password on main webpage. And click the “Service” button to set up the DDNS function.



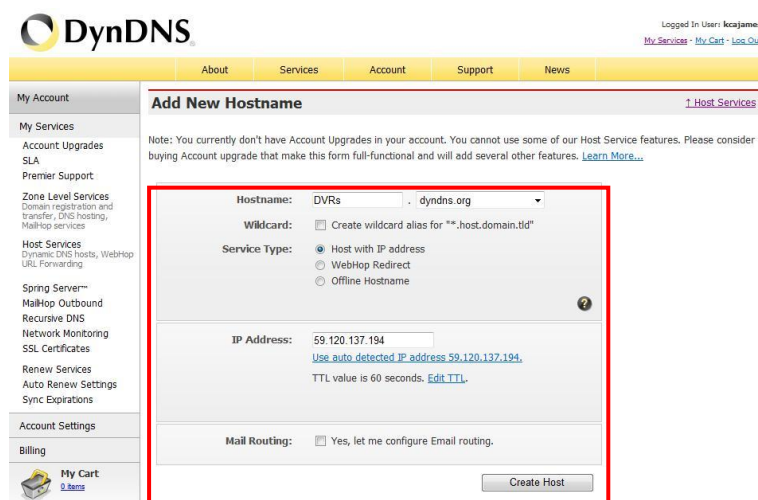
8. Please select the “Dynamic DNS” button.



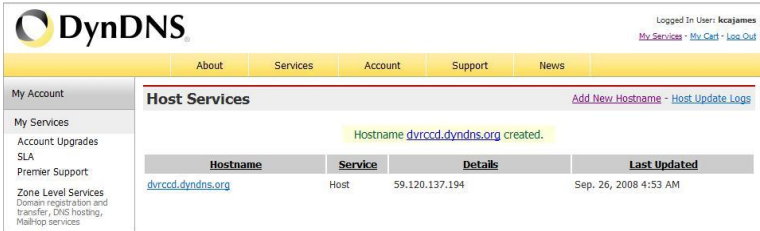
9. Click the “Get Started” button to add the new Hostname.



10. Set up the “Hostname” and “IP Address” by yourself. You can enter your favor domain name to “Hostname”, and input correct “IP address” to IP Address. Finally, click the “Add Host” to finish the setting.



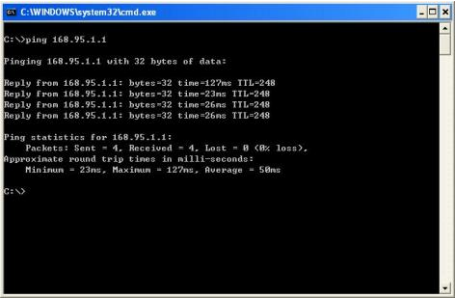
11.The DDNS information will display on the webpage in the end.



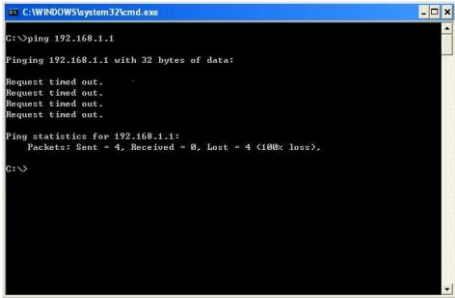
- 12.Please try to connect to the DVR through domain name.
- 13.If you can not connect the DVR through domain name, you can test the DDNS service on your PC.
- 14.Please open the “command mode” from “**Start Menu**”.
- 15.Input the command: c:\>ping xxxxx.dyndns.org [ENTER].

NOTE :
The “xxxxx” is your domain name.

- 16.If the command mode display the figure information.
Your DDNS is correct.



- 17.If the command mode display the “timed out” information. Your DDNS is wrong.



Appendix E: How to set up IP CAMERA through Router

If you have the router, you need to set up the setting of Router. There are many routers in the market, but not all routers can support this function. Please check first.

You will find the setting in the “Advancement Setting” of router. The setting call “Virtual Server”, but different routers have other name. Some routers call “Port Forwarding”, “Port Manage”. You can search about IP and Port setting by your router manual.

For example: Use the **D-Link 604** Router to set up the function.

You need to connect the PC and IP CAMERA to the router through RJ45 cable.



According to your router default class C IP. Set up your DVR IP, Submask and Gateway through OSD interface.

NOTE :

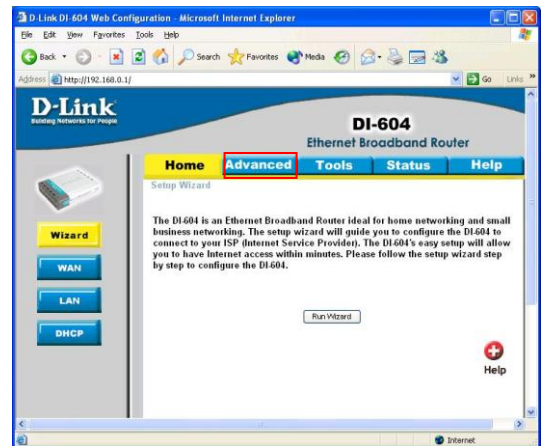
Please avoid to use the same IP from the router.

The appendix will refer the default port setting of IP CAMERA. If you change the port setting values, please follow your port setting values.

Turn on the PC then open the IE Browser. Input the gateway IP of router. According to the manual of router to input the user name and password then click “OK” to enter router setting.



Any router have different setting web page, but you can only search the “Advancement Setting” of web page. Because of the most of virtual server setting is in the “Advancement Setting”. Please find and click the “Advancement Setting” selection.



You will find the “Virtual Server” selection on the left of webpage. Please click the selection then set up the function.

If you want to remote connect the IP CAMERA, you need to set up the three virtual servers in the router. Input the all setting value then click the “Apply” button.



NOTE :

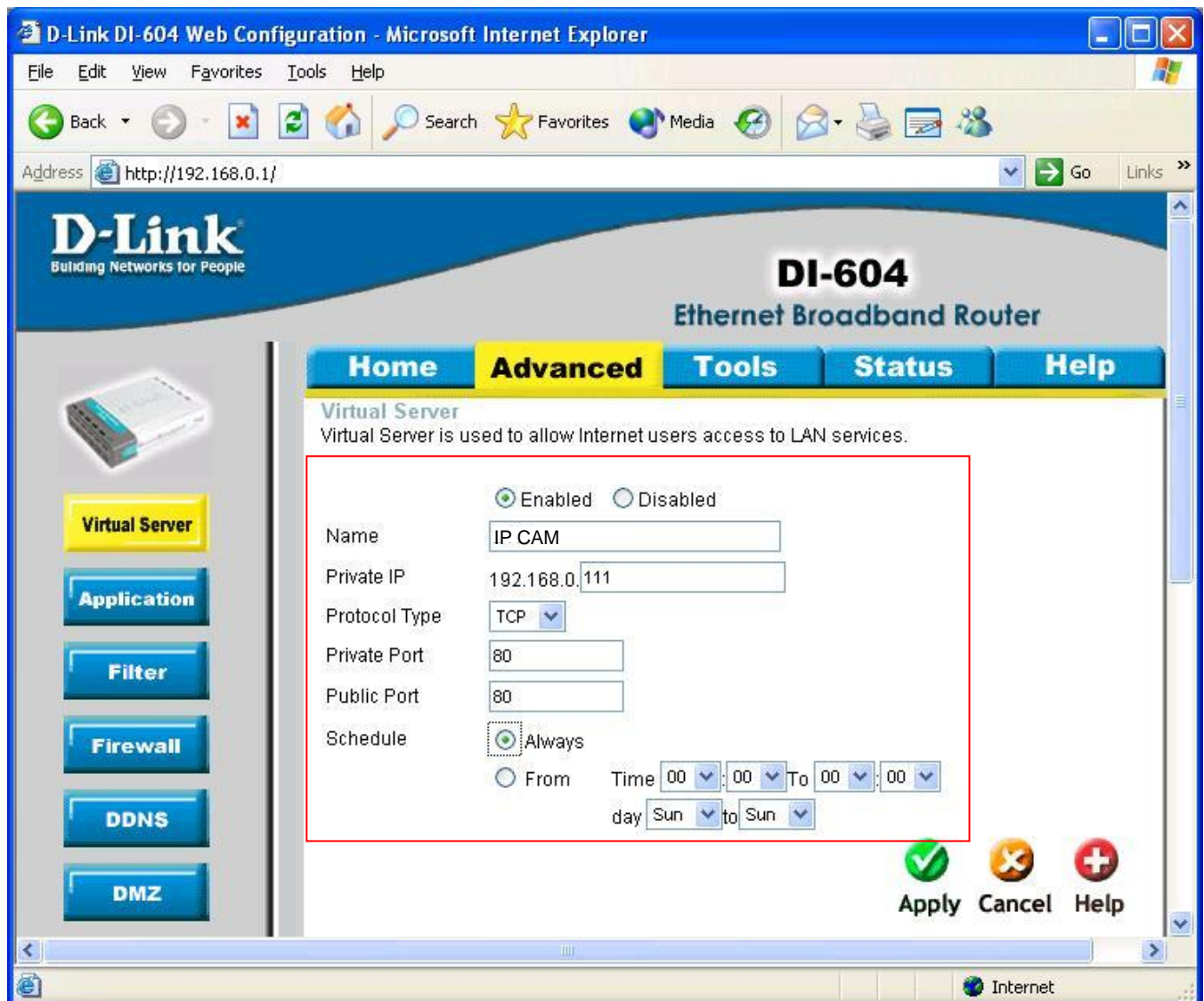
Please refer the detail setting on next page.

In the normal state, the router will restart the system. You only wait a minute and click “continue” button to finish the setting. The webpage will connect to the main webpage of router.



Because of the router have many different type on the market in the world. You only need to note the main setting in this manual. And then refer the other router manual, you can set up the virtual server function in other router.

The IP CAMERA need to add three setting in the router, but all setting is the same. You can consult the setting and illustration as below:



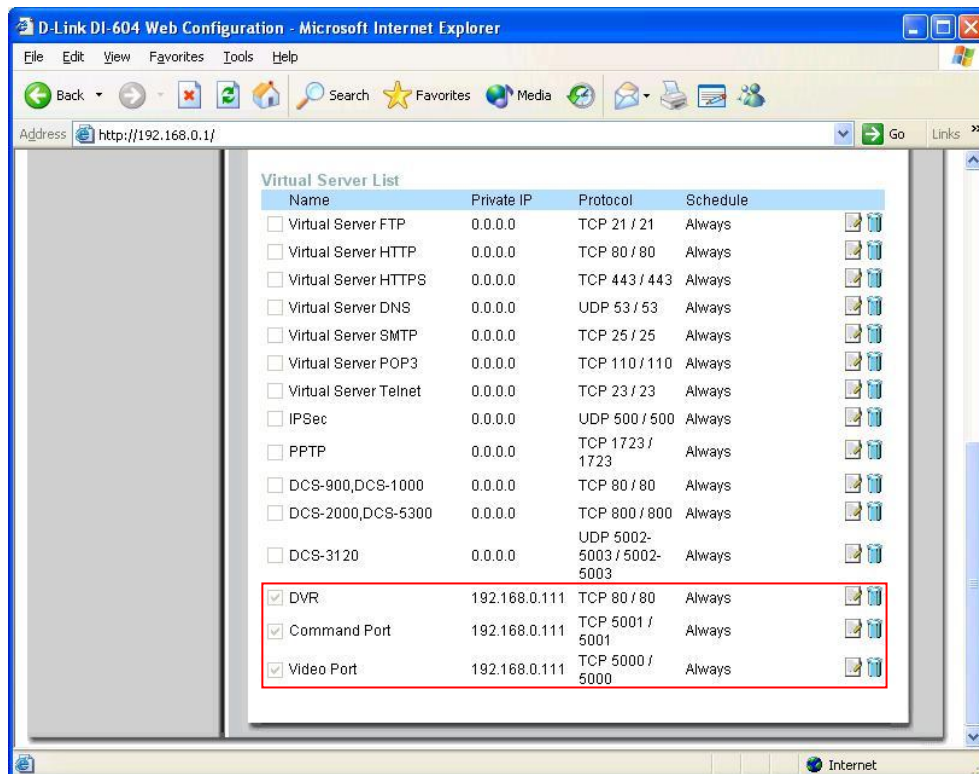
- Select the "Enabled" to start the "Virtual Server" function
- In the "Name" section, please input any appellation by yourself.
- In the "Private IP" section, please input the DVR IP address.
- In the "Protocol Type" section, please select the "TCP" type.
- In the "Private Port" section, please input the 80 of number.
- In the Private Port section, please input the 80 of number.
- In the "Schedule" section, please select "Always".

Please add the same setting one more times. So you finish the one setting. You only change the “Private Port”, “Private Port” and “Name” value. The some router cannot discriminate “Private Port” and “Private Port”. In this situation, you only set up the “Port” selection.

In this time, the “Private Port” and “Private Port” need to input 1852 / 1852.

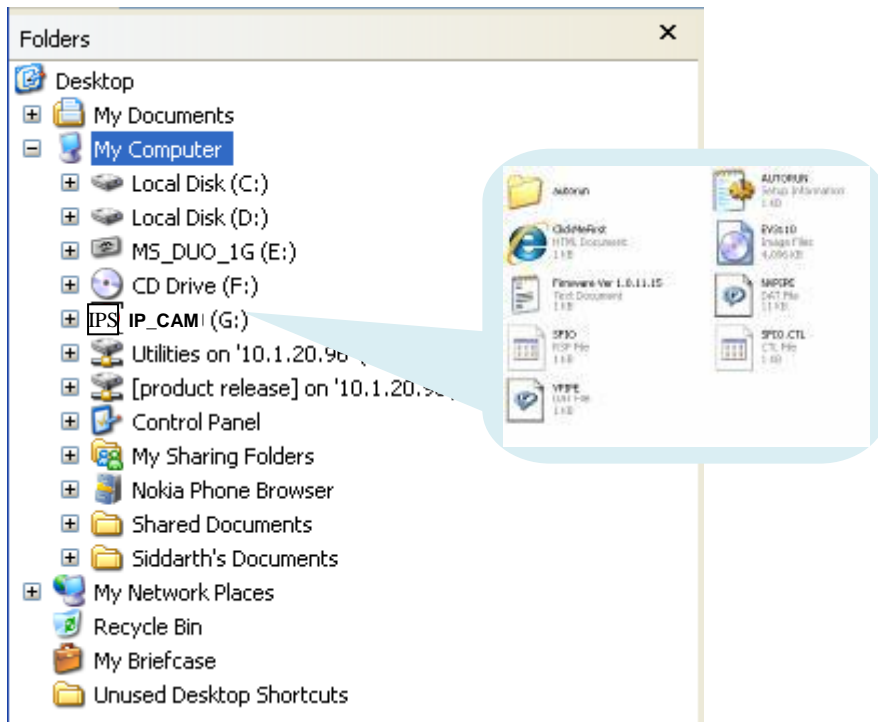
☒ Enabled ☐ Disabled
 Name: Port Setting
 Private IP: 192.168.0.111
 Protocol Type: TCP
 Private Port: 1852
 Public Port: 1852
 Schedule: ☒ Always
☐ From Time 00:00 To 00:00 day Sun to Sun

Finish the all setting of virtual server; you can check the setting is working in the “Virtual Server”.



Appendix F: What If QUICKCONFIG does not AUTORUN?

In some PC, after connecting USB cable with Config port, there might not be auto run of Quick Config application.



Open up a folder named “**autorun**”. That folder contains a HTML

In that case, just open disk drive which looks like shown on screenshot below. It should have volume name starting with VideoServer.

Open up a folder named “**autorun**”. That folder contains a HTML executable file named “**autorun**”. Double click that to run. You will find that it is the same “**Quick Config**” application is running. See the screenshots below to find that file on the disk drive.